CONGRATULATIONS, CLASS OF 2010!

MIT's Oldest and Largest Newspaper



WEATHER, p. 2

SAT: 76°F | 62°F

Likely rain SUN: 72°F | 57°F Scattered storms

Volume 130, Number 27 tech.mit.edu Friday, June 4, 2010

New plans for dining:

Breakfast, more meals, higher price

> By Maggie Lloyd ASSOCIATE NEWS EDITOR

On May 19, the House Dining Advisory Group (HDAG) released its 4-page final recommendation for House Dining, effective in Fall 2011. The new plan offers all-you-can-eat breakfast and dinner seven days a week at the four dorms with dining halls (Baker, McCormick, Next, and Simmons). The final costs will depend on the selected vendor, but are now estimated to be \$2,900/year for the cheapest plan and \$3,800/year for the most expensive.

In its final recommendation, the HDAG required that at least one dining hall should remain open "late enough to accommodate athletes and other students who return to their Houses after 8 p.m." Breakfast will be served during a two-hour period on weekdays and a full brunch service will be offered in a threehour period on weekends. The current \$300 plan will remain the same for the 2010-2011 academic year, with no change in the service pro-

As with the current House Dining Membership, all students living in dorms with dining halls will be required to participate in the new House Dining plan. Students outside of these dorms may opt-in to the plan.

Anne M. Juan '12, a member of the HDAG and Next House Dining Chair, said that the plan "adds a breakfast component which many people were excited about and I am also in huge favor of. It has a take-out component which I think is important to every MIT student's

Dining, Page 19

Class of 2010 graduates today

Ray Stata to deliver commencement address



President Susan J. Hockfield congratulates the doctoral candidates at the doctoral hooding ceremony on June 3 in Rockwell Cage

By Jingyun Fan

ASSOCIATE NEWS EDITOR

MIT's 143rd graduating class will receive their degrees on Killian Court today. At the commencement ceremony, 912 undergraduate students and 1443 graduate students will graduate.

According to Registrar Mary

Callahan, for the 2009-2010 academic year, MIT awarded 1,116 bachelor's degrees, 1,580 master's degrees, 17 engineer's degrees, and 583 doctoral degrees.

Raymond S. Stata '57 (pronounced "STAY-tah") will deliver commencement address. Stata has had a long history of involvement with MIT; he is now a life emeritus member of the MIT Corporation, and served as President of the Alumni Association from 1987 to 1988. Stata is also the chairman and co-founder of Analog Devices Inc., a leading producer of signal processing chips. Stata is also the founder of

Commencement, Page 10

IFC hits **DTD** hard for CPW incident

Prefrosh not actually abandoned

> By Nick Bushak CONTRIBUTING EDITOR

An investigation by the Interfraternity Council has implicated Delta Tau Delta in the incident of a prospective student who became unconscious after consuming too much alcohol during Campus Preview Weekend. The IFC's ruling imposes a number of sanctions on DTD, which include a one year ban on alcohol in the DTD house, a one-and-a-half year ban on most social events, restrictions on off-campus trips during next year's rush, and a ban on hosting prefrosh during next year's CPW.

Some of the fraternity's members held a gathering in the MIT dormitory Bexley Hall, where they provided alcohol to the female prospective student, according to a statement issued by the IFC regarding the ruling.

IFC finding, Page 20

IN SHORT

Producers of The Hurt Locker filed a copyright lawsuit against 5,000 individual alleged file-sharers. Voltage Pictures will also subpoena ISPs for names of the copyright infringers using their IP addresses.

Economy Hardware filed for bankruptcy protection on April 21. The Central Square hardware store says they ran into some challenging years. They expect their three stores (also in Brookline and Boston) will continue operations.

Rodney's Bookstore will close late this summer. For now, all books are 50 percent off at the Central Square store. The site may become another bookstore or a nightclub.

Live photos of Commencement are on tech.mit.edu! Check it out.

Send news information and tips to news@tech.mit.

MIT nuclear reactor trains students in

By Margaret Cunniff

STAFF REPORTER

Brian K. Baum '10 calls his job "essentially glorified babysitting," but he's not watching over his neighbor's kids. Instead, he is one of a small group of undergraduates who operates MIT's nuclear reactor.

This group of students work in addition to the ten full-time employees at the reactor. They serve as operators and shift supervisors, performing everything from daily monitoring of History

The MIT reactor first opened in 1956 and was rebuilt in 1974 using parts engineered at MIT. "They developed it, they created it, they put it in," said Ekaterina D. Paramonova '13, a trainee at the reactor. "A lot of the people who have worked here for a long time have an intimate relationship with the reactor... It's like our little cottage."

sate management of complex systems

the reactor's operations to run-

ning drills of possible problems.

The reactor has been used

primarily for research throughout its existence. Experimental setups surround the reactor vessel. They range from systems used by juniors in the physics department, to facilities for medical irradiation, currently unused.

But earlier in its history, physicians working at the reactor were investigating the use of neutron beams as therapies for inoperable brain tumors. And though the medical facilities are

Reactor, Page 22

Wartman, smiling, goes north

A friend to all, he heads to Colby

By Maggie Lloyd ASSOCIATE NEWS EDITOR

Jed W. Wartman, Assistant Dean for Student Activities, likes to say "yes" to good ideas. In his four years at MIT, he says this attitude is what has characterized his work. It's an attitude he plans to take to his new position this fall as Associate Dean of Student Affairs and Director of Campus Life at Colby College in Maine.

According to Paul J. Spangle, Assistant Director of Student Activities, before Wartman arrived at the Student Activities Office it "was primarily a place where students came to receive checks and event registration signatures. Jed helped create an office where students feel valued."

Wartman was originally hired as a Residential Life Associate for Next House, New House, and Random Hall. One year later, he became Assistant Dean for Student Activities, a role he has held for three years now.

Wartman, an alumnus of Bowdoin College, said, "ever since I started working in higher ed, I have wanted to go back to a small

Wartman, Page 18



Dean Jed W. Wartman of the Student Activities Office will be leaving MIT at the end of the month. He is headed to Colby College in Maine, where he will be Associate Dean of Student Affairs and Director of Campus Life.

NORMAN BORLAUG

No clue who this guy is? Keith Yost explains this, and more, amidst some advice for all you graduating seniors. OPN, p. 5

DO YOU LIKE MIT?

So does Ryan Normandin. See what he says about freshman year. OPN, p. 5

A WORD FROM THE PRESIDENT

No, not Barry O., but close enough. OPN, p. 4



YU-PU ON YOUTUBE

When platinum blonde wigs and a capella remakes of top 40 pop songs meet. An inside look at the secret life of an MIT grad student. NEWS, p. 14

BIG BROTHER IS WATCHING

But in a positive, supportive, and very non-Orwellian way. NEWS, p. 10



SECTIONS

vvoria & ination	2
Opinion	4
Fun Pages	6
Campus Life	9
Arts	12
Sports	25

At Toyota, a cultural shift

Last month, when Steve St. Angelo, a longtime executive at Toyota in the United States, traveled to Japan, it was an eye-

St. Angelo over the years often had to work his way up the chain of command to reach the top of the corporate headquarters. On this trip, he met directly with Akio Toyoda, the company's president and grandson of its founder.

"Tell me bad news first," Toyoda instructed Angelo, who heads the company's North American quality group formed as a result of the recall of more than 6 million vehicles in the United States.

As Angelo and several other longtime American executives tell it, a new era has arrived at Toyota. Its face is Toyoda, who this month reaches his first year as president, and by these accounts, has come to appreciate how closely Toyota flirted with disaster in the United States — and is prepared to shake things up because of it.

Plenty of people do not believe Toyoda is serious. Rep. Bart Stupak, D-Mich., and vice chairman of the House committee investigating Toyota, says it is still difficult to coax information from the company about its safety problems.

And analysts say it is far too soon to say if this is the moment when Toyota departs from its Japanese roots and shares real authority with executives elsewhere.

—Micheline Maynard, The New York Times

Buffett defends Moody's, up to a point

NEW YORK — Warren E. Buffett, the largest shareholder of Moody's, offered a rather tepid defense of the credit-rating company and its chief executive at a hearing on Wednesday examining the causes of the financial crisis. Mostly, he emphasized how little he knows about the ratings business other than that it is — or has been — spectacularly profitable.

Buffett appeared at hearing held in Manhattan by the Financial Crisis Inquiry Commission, where he answered questions for more than two hours while sitting next to Moody's chief executive, Raymond W. McDaniel. He was asked over and over if McDaniel should have lost his job, given the poor performance of Moody's, which, like its main rival, Standard & Poor's, slapped triple A grades on hundreds of billions of dollars in bonds that were all but worthless after the housing crash.

Buffett declined to criticize McDaniel, though he had nothing much positive to say on his behalf, other than that Moody's was no better or worse at predicting the financial fiasco than nearly everyone else on Wall Street.

—David Segal, The New York Times

After suicides, technology firm raises salaries

SHANGHAI — Stung by labor shortages and a rash of suicides this year at its large factories in southern China, Foxconn Technology said Wednesday that it would immediately raise the salaries of many of its Chinese workers by 33 percent.

The pay increase is the latest indication that labor costs are rising in China's coastal manufacturing centers and that workers are demanding higher pay to offset an increase in inflation and soaring food and property prices.

On Wednesday, Honda Motor said it had resolved a strike in southern China and resumed operations at a transmission plant there after agreeing to give 1,900 Chinese workers a 24 percent pay raise.

The Honda strike, which lasted more than two weeks, was a rare show of power by Chinese workers, who are not commonly allowed by the government to publicly strike and walk off the job for higher wages.

—David Barboza, The New York Times

New Israeli tack needed on Gaza, U.S. officials say

By Ethan Bronner
THE NEW YORK TIMES

WASHINGTON — The Obama administration considers Israel's blockade of Gaza to be untenable and plans to press for another approach to ensure Israel's security while allowing more supplies into the impoverished Palestinian area, senior American officials said Wednesday.

The officials say that Israel's deadly attack on a flotilla trying to break the siege and the resulting international condemnation create a fresh opportunity to push for increased engagement with the Palestinian Authority and a less harsh policy toward Gaza.

"There is no question that we need a new approach to Gaza," said one official, who spoke on the condition of anonymity because the policy shift is still in the early stages. He was reflecting a broadly held view in the upper reaches of the administration

Israel would insist that any approach take into account three factors: Israel's security; the need to

prevent any benefit to Hamas, the Islamist rulers of Gaza; and the fouryear-old captivity of an Israeli soldier held by Hamas, Staff Sgt. Gilad Shalit.

Since the botched raid that killed nine activists on Monday, the Israeli government has said that the blockade was necessary to protect Israel against the infiltration into Gaza of weapons and fighters sponsored by Iran.

If there were no blockade in place, Prime Minister Benjamin Netanyahu '75 said on Israeli television on Wednesday evening, it would mean "an Iranian port in Gaza." He added, "Israel will continue to maintain its right to defend itself."

But the American officials said they believed that even Netanyahu understood that a new approach was needed.

Yet Netanyahu has resisted American pressure in the past. The Obama administration initially demanded a complete freeze on Israeli settlements in the West Bank but had to accept a 10-month partial freeze. Pressure on Israel also carries domestic political risks for Obama, given the passion of its supporters in the United States.

Israel withdrew its soldiers and settlers from Gaza five years ago and built the makings of an international border. But after Hamas, which rejects Israel's existence, won Palestinian parliamentary elections in early 2006, Israel cut back on the amount of goods permitted into Gaza. When Shalit was seized in a cross-border raid in June of that year, commerce was further reduced.

A year later, Hamas drove the Fatah-dominated Palestinian Authority entirely out of Gaza in four days of street battles, leading Israel to cut off all shipments in and out except basic food, humanitarian aid and urgent medical supplies.

Hamas declines to recognize Israel's right to exist, renounce violence or accept previous accords signed between Israel and the Palestinian Authority. The diplomatic group known as the Quartet, made up of the United States, Russia, the European Union and the United Nations, has said that until Hamas meets those requirements it will not deal with it.

Abortion foes advance cause at state level

By John Leland

THE NEW YORK TIMES

At least 11 states have passed laws this year regulating or restricting abortion, giving opponents of abortion what partisans on both sides of the issue say is an unusually high number of victories. In four additional states, bills have passed at least one house of the legislature.

In a flurry of activity last week, Gov. Haley Barbour of Mississippi signed a bill barring insurers from covering abortion in the new insurance exchanges called for under the federal health care overhaul, and the Oklahoma Legislature overrode a veto by Gov. Brad Henry of a bill requiring doctors who perform abortions to answer 38 questions about each procedure, including the women's reasons for ending their pregnancies.

It was the third abortion measure this session on which the Legislature

overrode a veto by Henry.

At least 13 other states have introduced or passed similar legislation this year. The new laws range from an Arizona ban on coverage of abortion in the state employees' health plan to a ban in Nebraska on all abortions after 20 weeks, on the grounds that the fetus at that stage can feel pain.

Fetal pain is a subject of debate in the medical community, and the U.S. Supreme Court has recognized the government's right to ban abortions only after a fetus becomes viable, which is more than a month

"The right-to-life folks are seeing just how far they can push things," said Joseph W. Dellapenna, a law professor at Villanova University and the author of "Dispelling the Myths of Abortion History."

Dellapenna said it was "almost a certainty" that one of the laws would end up in front of the Supreme

10007

Court, where Justice Sonia Sotomayor's views on abortion are untested, as are those of Elena Kagan, President Barack Obama's new court nominee.

"It could turn out they can push things a lot farther than people think," he said. "Or, it could not."

While opponents of abortion rights hope ultimately to overturn Roe v. Wade, the Supreme Court decision that guarantees a woman's right to an abortion, they have made the most impact at the state level, where laws passed in one state often appear in other legislatures in subsequent years. State laws also have the potential for national consequences by setting off court battles that challenge or limit the scope of Roe.

"Ninety percent of pro-life legislation happens at the states," said Daniel S. McConchie, vice president for government affairs at Americans United for Life, which opposes abortion.

40°N

WEATHER

Commencement Weather

By Elizabeth Maroon

STAFF METEOROLOGIST

STAFF METEOROLOGIST ast week when I nicl

Last week when I picked up my regalia, I was warned that the fabric's dye could run if the temperatures were warm or if it rained. Thankfully, it looks like our chance for rain during Commencement will be minimal. Highs should be reasonable as well, near 76°F (24°C). (With any luck, I'll wear the white dress sitting in my closet.) Skies during commencement should be partly cloudy, with clouds increasing overnight. The chance for rain will also increase overnight and into

Saturday as a shortwave moves will continue through Saturday night into Sunday as a weakly unstable air mass continues over the region. Temperatures through the weekend should remain comfortable with highs in the mid-70s, and lows in the 60s. A weak cold front will pass through Sunday night, followed by drier conditions and a more stable synoptic setup through the beginning of next week. And thus concludes my last Tech forecast as an MIT student. Good luck to the Class

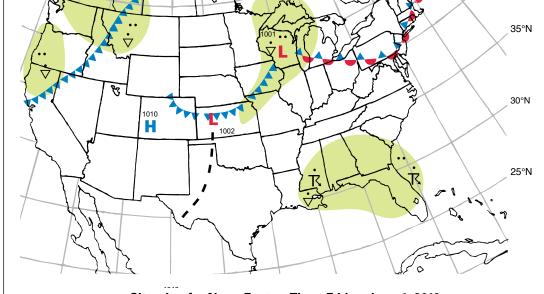
Extended Forecast

Today: N winds around 5—8 mph; increasing clouds through the day. Slight chance of showers. High 76°F (24°C).

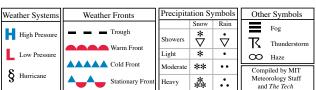
Tonight: Overcast with winds around 5—8mph from the south. Likely chance of rain. Low 63°F (17°C).

Tomorrow: Daytime rain showers likely and light NE

winds. High 76°F (24°C). **Sunday**: Potential for rain continues. Light S winds. High 77°F (25°C).



Situation for Noon Eastern Time, Friday, June 4, 2010



Friday, June 4, 2010

Heaviest users of AT&T phone data will pay more

By Matt Richtel

THE NEW YORK TIMES

They spend hours watching video on their phones, downloading songs, browsing the Web, sending photos to friends and generally using mobile devices as full-fledged computers. They are the data hogs.

On Wednesday, AT&T pulled away the trough. And other wireless carriers could do the same.

AT&T said it would no longer offer an unlimited data plan to new users of iPhones and other smartphones. The decision, industry analysts said, could signal a shift away from an era in which U.S. wireless carriers sought to attract customers with simple, all-you-can-eat pricing plans for data.

The trouble for AT&T was that a fraction of users — fewer than 2 percent — made such heavy use of the network that they slowed it down for everyone else.

Starting Monday, AT&T will offer tiered pricing. People will pay based on what they use, which the company says is fairer to everyone.

Instead of paying \$30 a month for unlimited data, new customers will

be given the option of paying \$15 a month for 200 megabytes, or \$25 for 2 gigabytes. AT&T estimates that the more expensive plan will cover 1,000 minutes of video, 400 song downloads or a million one-page e-mail messages. Those who want to keep their existing unlimited plans can do

Industry analysts said AT&T's move could have ripple effects on other wireless carriers and, eventually, a growing segment of the population that has begun gorging on data using their phones.

"The free lunch for the ultraheavy data user has been taken off the menu," said Roger Entner, a telecommunications industry analyst with the Nielsen Co. "The new generation of heavy users is going to pay according to what they use."

With a new generation of advanced phones, mobile data use has exploded. In April this year, 57.1 million mobile subscribers in the United States had unlimited data plans, a 57 percent increase from a year earlier, according to comScore, a research group.

The wireless carriers have gener-

ally benefited from the growth. Last year, they took in \$152 billion in revenue from data use, compared with \$113.5 billion in 2005, according to CTIA, the industry's trade association

Home Internet users are sucking up more data too, of course. But analysts say providers of home access are unlikely to drop unlimited plans anytime soon. One big difference is that those companies can more easily add capacity than mobile carriers, which must license scarce and expensive spectrum from the government.

When wireless customers take "unlimited" literally, analysts say, those plans rapidly become money losers for the companies. The problem is not unique to AT&T, analysts said, but it has suffered more than its competitors because of the data demands of iPhone users. They use on average a third more data than the typical smartphone owner, Entner noted.

"The biggest data pigs in the world are the iPhone guys," said Edward Snyder, an analyst with Charter Equity Research.

Nuclear option on the oil spill? U.S. says no thank you

By William J. Broad

THE NEW YORK TIMES

The chatter began weeks ago as armchair engineers brainstormed for ways to stop the torrent of oil spilling into the Gulf of Mexico: What about nuking the well?

Decades ago, the Soviet Union reportedly used nuclear blasts to seal off runaway gas wells, inserting a bomb deep underground and letting its fiery heat melt the surrounding rock to shut off the flow. Why not try it bere?

Why not try it here?

The idea has gained fans with each failed attempt to stem the leak and each new setback — on Wednesday, the latest rescue effort stalled when a wire saw being used to slice through the riser pipe

"Probably the only thing we can do is create a weapon system and send it down 18,000 feet and detonate it, hopefully encasing the oil," Matt Simmons, a Houston energy expert and investment banker, told Bloomberg News on Friday, attributing the nuclear idea to "all the best scientists."

Or as CNN reporter John Roberts suggested last week, "Drill a hole, drop a nuke in and seal up the well."

This week, with the failure of the "top kill" attempt, the buzz had grown loud enough that federal officials felt compelled to respond.

Stephanie Mueller, a spokeswoman for the Energy Department, said that neither Energy Secretary Steven Chu nor anyone else was thinking about a nuclear blast under the gulf. The nuclear option was not — and never had been — on the table, federal officials said.

"It's crazy," one senior official

Government and private nuclear experts agreed that using a nuclear bomb would be not only risky technically, with unknown and possibly disastrous consequences from radiation, but also

unwise geopolitically — it would violate arms treaties that the United States has signed and championed over the decades and do so at a time when President Barack Obama is pushing for global nuclear disarmament.

The atomic option is perhaps the wildest among a flood of ideas proposed by bloggers, scientists and other creative types who have deluged government agencies and BP, the company that drilled the well, with phone calls and e-mail messages. The Unified Command overseeing the Deepwater Horizon disaster features a "suggestions" button on its official website, and more than 7,800 people have responded, according to the site.

Among the suggestions: Lowering giant plastic pillows to the seafloor and filling them with oil, dropping a huge block of concrete to squeeze off the flow and using magnetic clamps to attach pipes that would siphon off the leaking

Study cited for health-cost cuts overstated upside, critics say

By Reed Abelson and Gardiner Harris

THE NEW YORK TIMES

In selling the health care overhaul to Congress, the Obama administration cited a once obscure research group at Dartmouth College to claim that it could not only cut billions in wasteful health care spending but make people healthier by doing so.

Wasteful spending — perhaps \$700 billion a year — "does nothing to improve patient health but subjects you and me to tests and procedures that aren't necessary and are potentially harmful," the president's budget director, Peter Orszag, wrote in a blog post characteristic of the administration's argument.

Orszag even displayed maps produced by Dartmouth researchers that appeared to show where the waste in the system could be found. Beige meant hospitals and regions that offered good, efficient care; chocolate meant bad and inefficient.

The maps made reform seem relatively easy to many in Congress, some of whom demanded the administration simply trim the money Medicare pays to hospitals and doctors in the brown zones. The administration promised to seriously consider doing just that.

But while the research compiled in the Dartmouth Atlas of Health Care has been widely interpreted as showing the country's best and worst care, the Dartmouth researchers themselves acknowledged in interviews that in fact it mainly shows the varying costs of care in the government's Medicare program. Measures of the quality of care are not part of the formula.

For all anyone knows, patients could be dying in far greater numbers in hospitals in the beige regions than hospitals in the brown ones, and Dartmouth's maps would not pick up that difference. As any shopper knows, cheaper does not always

mean better.

Even Dartmouth's claims about which hospitals and regions are cheapest may be suspect. The principal argument behind Dartmouth's research is that doctors in the Upper Midwest offer consistently better and cheaper care than their counterparts in the South and in big cities, and if Southern and urban doctors would be less greedy and act more like ones in Minnesota, the country would be both healthier and wealthier.

But the real difference in costs between, say, Houston and Bismarck, N.D., may result less from how doctors work than from how patients live. Houstonians may simply be sicker and poorer than their Bismarck counterparts. Also, nurses in Houston tend to be paid more than those in North Dakota because the cost of living is higher in Houston. Neither patients' health nor differences in prices are fully considered by the Dartmouth Atlas.

New rules proposed for airlines

The Transportation Department signaled Wednesday that it planned to be more aggressive in forcing airlines to address common traveler frustrations, proposing a wide range of consumer protections. They come on top of earlier rules limiting how much time passengers can sit on planes on the tarmac.

The proposed rules would, among other things, raise compensation for passengers denied boarding on oversold flights, allow customers to get a full refund within 24 hours of buying an airline ticket and require reimbursement of baggage fees and expenses when luggage is not delivered on time.

They would also require the airlines to more speedily notify travelers about flight delays and cancellations and ban airlines and ticket agents from advertising prices that are not the full fare — specifically requiring clearer disclosure in advertisements for "one-way" fares that can only be acquired as part of a round-trip ticket.

Taken together, the proposals, which are expected to take effect in the fall, are the Obama administration's answer to rising frustrations about airline delays, proliferating fees, shady advertising practices and the general lack of responsiveness by carriers to customer complaints.

The tarmac rules, which took effect in late April, require airlines to give passengers stuck on the tarmac the option to get off the plane after three hours, with exceptions for safety and security reasons. Carriers were also required to develop plans to deal with lengthy tarmac delays and provide passengers with snacks, water and working bathrooms.

-Susan Stellin, The New York Times

U.N. report highly critical of American drone attacks

WASHINGTON — A senior U.N. official said Wednesday that the growing use of armed drones by the United States to kill terrorism suspects was undermining global constraints on the use of military force. He warned that the American example would lead to a chaotic world as the new weapons technology inevitably spread

In a 29-page report to the U.N. Human Rights Council, the official, Philip Alston, the U.N. special representative on extrajudicial executions, called on the United States to exercise greater restraint in its use of drones in places like Pakistan and Yemen, outside the war zones in Afghanistan and Iraq.

The report — the most extensive effort by the United Nations to grapple with the legal implications of armed drones — also proposed a summit meeting of "key military powers" to clarify legal limits on such killings.

In an interview, Alston said the United States appeared to think that it was "facing a unique threat from transnational terrorist networks" that justified its effort to put forward legal assertions to make the rules "as flexible as possible."

But that example, he said, could quickly lead to a situation in which dozens of countries carry out "competing drone attacks" outside their borders against people "labeled as terrorists by one group or another."

—Charlie Savage, The New York Times

Obama says he'll push for clean energy bill

PITTSBURGH — President Barack Obama said Wednesday that it was time for the United States "to aggressively accelerate" its transition from oil to alternative sources of energy and vowed to push for quick action on climate change legislation despite almost unanimous opposition from Republicans and continued skepticism from some Democrats.

Seeking to harness the deepening anger over the oil spill in the Gulf of Mexico to the advantage of his legislative agenda, Obama promised to find the lagging votes in the Senate to get the climate change and energy bill passed this year. Last year, the House passed a version of the bill, which tries to address global warming by putting a price on greenhouse gas pollution and provides incentives for alternative clean energy sources.

"If we refuse to take into account the full cost of our fossil fuel addiction — if we don't factor in the environmental costs and national security costs and true economic costs — we will have missed our best chance to seize a clean energy future," Obama said. "The votes may not be there right now, but I intend to find them in the coming months."

Obama's remarks were made to a group of about 300 local business owners and economic officials at Carnegie Mellon University. He used them to reiterate his call to roll back Bush administration tax breaks for oil companies and to make a broader case for his administration's accomplishments heading into an election season.

—Helene Cooper, The New York Times

South Korea's governing party surprised by election setback

SEOUL, South Korea — President Lee Myung-bak's governing party suffered a surprising setback in local elections that had been widely viewed as a referendum on Lee's handling of the sinking of a South Korean warship, according to election results released on Thursday.

Candidates of Lee's Grand National Party had hoped that outrage in South Korea over the sinking of the Cheonan, which led to the death of 46 South Korean sailors, would help them ride a conservative wave to a sweeping victory. Lee's government has formally accused North Korea of attacking the ship with a torpedo from a submarine.

On Wednesday, the president's party won only 6 of 16 crucial races to elect mayors and governors in big cities and provinces. Its main rival, the opposition Democratic Party, won seven races. The remaining three races were won by independents and a candidate from a small opposition party.

— Choe Sang-Hun, The New York Times



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EDITORIAL

Process is key for dining

For all undergraduates, including the majority who don't live in dining hall dorms and have no direct stake in the costs of meal plans, MIT's house dining program impacts more than just how they eat; it impacts their cultures, friends, and social habits. Changing house dining, a financial necessity, will alter or eliminate some long cherished traditions and replace them with new, potentially better ones.

This is why it is vital that the process behind dining reform be logical, open, and understandable. Two weeks ago, the House Dining Advisory Group (HDAG), a committee composed of student representatives and housemasters from dormitories with House Dining, released a final set of recommendations for the future of House Dining at MIT.

However, despite numerous, wellintentioned efforts on behalf of DSL, it does not appear as if student input had any meaningful effect on HDAG's decision. According to the "House Dining Review" website, HDAG from the beginning was working with three predetermined frameworks: essentially cheaply-priced, moderately-priced, and expensive options. Ultimately, HDAG seems to have taken months to simply pick one of the options laid out to them by the Division for Student Life. While the final recommendation makes some references to the "high end" food quality desired by students and the need to accommodate athletes' schedules, among other things, these details are trivial compared to more important questions. Was HDAG willing to diverge at all from the frameworks laid before them? Did the students on the committee have an adequate grasp of the situation to propose alternatives, and would they have been considered at all? What if there were more than three good options; where was the creative synthesis we usually see when MIT students get involved in a process? Where was the analysis, the interesting alternative choices? For that matter, was student input that looked incompatible with DSL's initial guidelines even considered? Without detailed minutes, it is impossible to know whether HDAG asked themselves these questions.

There is reason to suggest that failure here may have sprung from the students appointed ex officio to the committee. Though it was reasonable for DSL to assume they were natural choices, dining chairs in dorms should not have been automatically appointed to HDAG, for the basic reason that they already have a bias toward institutional dining plans rather than an openness toward others' suggestions. Their primary job is not to represent the dining opinion of their dormitory, but to improve the dining hall at which they probably eat regularly. Furthermore, it is not evident that dining chairs or even dorm presidents would be sufficiently prepared by the experience of their post to manage a complex relationship with faculty and administrators and faithfully represent their constituencies in a committee environment. This is precisely why, for other committees, the Undergraduate Association has a careful interview process for selecting student representatives to policymaking committees. In contrast, the students on HDAG were very optimistic about their input on the committee, but did not match their optimism with the details of their roles or the specifics of reform plans.

The picture is not entirely bleak, however. Compared to last year's student life decisions concerning varsity sports cuts, it is clear that DSL and HDAG went to significant lengths to open their process to significant, albeit not necessarily utilized, student input. The HDAG committee itself boasted a

one-to-one ratio of student to house-master voters. An online "Idea Bank" was opened for students to submit dining concerns, and at least some of these were specifically addressed in a public document. The Dining Reform website was impressively navigable and featured an extensive archive of formerly published dining-related documents. In short, there is no denying that HDAG's process was significantly more open than prior student life decisions, and we hope to see these improvements applied to future DSL decisions.

As The Tech wrote in an April 2009 editorial concerning the varsity sports cuts, "there is a difference between having a chance to provide input and having a chance to provide meaningful input." It is still unclear whether MIT administrators have learned to make this distinction. Most disappointingly, HDAG delayed the publication of their final report from an original May 3 date to May 18 - the midst of finals week — with no stated explanation. This minimized the importance of the dining reform and made it difficult for students and student groups to respond to the report's recommendations before they left campus for the summer. And as The Tech pointed out in a May 11 editorial, HDAG's meeting minutes were useless for getting any genuine insight into what was discussed at a meeting.

Looking ahead, DSL should take the student criticism of HDAG and the dining process from all parts of campus as genuine, and resist the urge to simply defend decisions they have made. MIT students are hesitant about someone who says "trust me, this will be good for everyone" without proof, and it is the job of the Division of Student Life to provide that proof. While HDAG has done far better than most in their communications with students, they still have a long way to go.

GUEST COLUMN

Life in the cement bunker

Growing with and through MIT

By Michael Bennie

Over the course of four years at MIT, I've come to realize the meaning of IHTFP. I distinctly remember the senses of anguish: the smell of a blown op-amp at 2AM, feeling powerless when MIT cut eight varsity sports, the taste of another Red Bull while trying to finish that computational biology project, and listening to the collective groan of freshmen getting back their phys-

ics exams. The visions of paradise are even more vivid: watching our professor race to erase multivariable calculus equations in 10-250 before the boards could reset, observing a unanimous vote of the faculty to approve an experiment that could bring together the fall career fair and the September student holiday, and seeing it start to snow right before my first crew regatta. During the weeks since class ended, I've found myself thinking about how unique

some of these experiences are to MIT and identifying the common thread behind them: our community and its insistence on the freedom to explore.

Other universities certainly have distinct traditions and culture. Cornell has Dragon Day. Students at Duke literally camp out for basketball tickets. So what defines MIT? If Ivy League schools are "ivory towers," then

Culture, Page 5

CORRECTIONS

A photo caption on page 15 of the Friday, May 7 issue incorrectly stated that the John Hancock Tower in Boston was designed by I.M. Pei '40. While the Tower was designed by Pei's firm, Pei Cobb Freed and Partners, the architects were Henry N. Cobb and Harold Fredenburgh, not Pei.

An article on Friday, May 11, about the Physics Rock Concert gave the wrong year for Yelena S. Bagdasarova, who graduates today. She is in the class of 2010, not the class of 2011.

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MIT: The freshman experience

A look back at my first year at the Institute

By Ryan Normandin STAFF COLUMNIST

I remember falling asleep that first night after moving into my room. Music blasted somewhere in the distance, cars zoomed by across the river, and voices shouted and laughed outside as people walked by MacGregor House. It was a sharp contrast to what I was used to. Having grown up in Uxbridge, MA, a small town of 13,000, I was accustomed to far more natural sounds: the rustling of leaves as the wind swept through them. The chirping of crickets amid the buzzing of other insects. The gentle pattering of

But I remember looking out my window at the one familiar thing: the clear night sky, and thinking how lucky I was to be at MIT and to have the opportunity of a lifetime in my hands. I was determined to take advantage of it — to make the most of the next four years I had at this place. In my mind, it was all very pearly white and idealistic. I knew it would be

rain on the roof.

challenging, but I was ready to work. I knew that for the first time, everyone around me was as smart as or smarter than me, but that was just another opportunity to take advantage of. I was pumped to be taking all math and science classes, with the exception of one HASS (Humanities, Arts and Social Sciences) class per semester. The night sky was beautiful, the atmosphere was one of eager anticipation and excitement, and I was ready to get

A few months later, that same night sky stopped looking so pretty as I watched it slowly turn into dawn, heralding the end of yet another night spent doing a problem set. I had realized slightly too late just how challenging the classes were, managing to only scrape by in most of my classes first semester. I had also realized that being surrounded by super-smart people meant that when professors curved exams, you needed to do as well or better than them to succeed; rarely an easy task. And all the math and science classes were certainly interesting, but the

workload was enormous; I came to view my HASS class as a much-needed break from the rigor of the rest of my schedule. For the first time for myself and my peers, we were being intensely challenged academically. The coolest part was that I seemed to be enjoying the onslaught.

After grades came out at the end of first semester, it's sufficient to say I was very thankful that MIT's first semester Pass/No Record system doesn't impact students' GPAs. While it's tempting to look in from the outside and think Pass/No Record is unnecessary or "babies" freshmen too much, I contend that for some students, myself included, it is a crucial period of transition. It allows students to acclimate to MIT's intensity. Most importantly, it works; when I returned in the spring, I knew what to expect and, this time, felt prepared for it. My second semester went far more smoothly than my first.

Having completed my first year, I must say that I am very glad I chose to come to MIT over any other school. The experience I have had here, in only my first year, has been something I would not trade away. I understand why people say an MIT education is like drinking from a firehouse; it is exhilarating. At first, I felt overwhelmed, but I soon realized that I was capable of handling the torrent of information and work being thrown at me. MIT has allowed me a peek into what I am capable of at my best. But I've yet to find the boundaries of those limits, which gives rise to perhaps the greatest part about my first year.

Besides the people that I have met, the best thing about my freshman year has been that MIT throws hugely staggering obstacles in your face and says: "Deal with it," and you find a way to pull it off. Finishing a year at this place instilled in me a sense that anything is possible if you put your mind to it and are willing to work hard to get it done. I haven't found the boundaries to what I can do because there aren't any. That is the most important lesson I've learned as a freshman, and I'm sure that these next three years will be equally rewarding.

Where will you go from here?

An MIT education can do a lot for you – but which paths are worth it?

By Keith Yost STAFF COLUMNIST

In 1970, an American agronomist named Norman Borlaug won the Nobel Peace Prize. His research on improving crop yields, a central component to what is commonly called the "Green Revolution," has been credited with saving as many as a billion lives. If this estimate is an exaggeration, it is not a large one — at the time of Borlaug's effort, the conventional wisdom of pundits, epitomized by Paul Ehrlich's "The Population Bomb," was that without significant population control, mankind was on its way to mass starvation. Though he achieved little fame or monetary reward, Borlaug may be the greatest humanitarian of all time.

As you graduate, I offer you a hypothetical choice. If you were given the option of living a happy life doing something unproductive (imagine digging holes and filling them back in again, or helping a Wall Street firm execute trades twenty nanoseconds faster than their competitors), versus contributing to society on a level comparable to Borlaug's, yet being fundamentally unhappy, which would you

We are a nation obsessed with happiness. Over time, the enshrinement of the "pursuit of happiness" as one of our fundamental, self-evident rights has been transformed from something that the government is barred from infringing upon to the end-all-be-all of human existence — more a mission than a protected freedom.

The hope of MIT is not merely that you will come away with a technical education, but that you will also graduate with an ethos of self-sacrifice. We hope, against the zeitgeist of our times, that when offered the choice, you will place service to others over happiness.

As you take your diploma, look around you. On the towers overlooking Killian, we have engraved the names of great men: Newton, Faraday, Darwin, Da Vinci. We do

I ask that you live by a simple dictum: I shall produce for others more than I myself consume.

not celebrate these men for living happy, fulfilled lives, for the contentedness of their existence — indeed, their personal satisfaction in life is little more than an afterthought in the historical record. We celebrate them for their accomplishments, for the advancement they provided to society. Inside Lobby 10, the walls are engraved with the names of MIT engineers who made the ultimate sacrifice, who died in wars to defend their country. These places, the most visible and hallowed of our institution, the departure point for each legion of engineers we send out into the world, are reserved for those who gave to their fellow

I ask that you continue the pattern of selfdenial that you no doubt followed at MIT, and to live by a simple dictum: I shall produce for others more than I myself consume.

No one can force this dictum upon you.

We live in a free society; you will not be drafted to serve, nor coerced into yielding your talents. But just because society does not (and indeed, should not) have the legal right to extort your labor does not mean that you do not have a personal moral obligation to offer it willingly. Mankind is engaged in a war — a war to expand the resources and capabilities of our species against natural constraints. Its casualties can be readily found in the under-developed world, dying of malaria and malnourishment. MIT has given you the weapons to wage this war and, hopefully, the courage to fight it.

If you decide to enlist in this struggle, there will be no clearly marked door for you to walk through, no bright path for you to follow. College life is multiple choice. Your major, your classes, your living quarters all came from a table of well-defined options. Gone are the structured days of semester-sized bites of education and advisor meetings. In the real

In the real world your decisions will be openended, ill-defined, and made with limited guidance. You will make mistakes. It is inevitable.

world your decisions will be open-ended, ill-defined, and made with limited guidance. You will make mistakes. It is inevitable. Even Borlaug at one point incorrectly thought that his best contribution to society would be made as a soldier in WWII- fortunately for us, he was denied enlistment. But even if no one has the answers, it still stands that if you make bettering humanity your pursuit, you are more likely to do so than if you embarked upon another purpose.

I cannot promise anything in the way of your future happiness — each man's psychology is different — but there is a good chance that you will find fulfillment through the accomplishment of great things, and that the hypothetical choice I offered between a happy, but unproductive life, and a productive, but unhappy life, is ultimately a false one. It is not hard to imagine Borlaug, stooped over a cornfield in a distant third-world nation, sunburned and lonely, quietly toiling away in obscurity and misery at the monotonous work of saving lives. And yet when asked directly if he was happy, Borlaug replied, "Yes,

You do not need to ask Borlaug to know whether you yourself can find happiness in the midst of self-denial. For four years you have given yourself to this institute, pledging countless hours and long nights to obtain an education that will allow you to improve the world. You have sacrificed for the majority of your adult life, and now, as you graduate, you can ask yourself, which is greater? The promise of future days spent coasting through life upon the effort you gave as a student, or the pride of accomplishment at having survived this institution and bettered yourself? Do you feel relief, or self-worth?

Whatever the answer, and the path you choose — congratulations to the class of 2010. May you live happy, productive lives.

MIT has a unique student culture — let's protect it

Culture, from Page 4

AIT is a cement bunker. We trade mahogany walls for slate lab benches and vibrant, red brick buildings for a nuclear power plant and wind tunnel. Life inside of this bunker is tough but rewarding and it has fostered a unique community that leads us to call this place home, Today, the Class of 2010 emerges from that bunker (some of us only briefly before returning to graduate school) to reflect on our time here and the moments that define our MIT experience. As we were trying to manage the torrents of problems sets and labs, sometimes it seemed that we were just like every other overworked college student. However, within this bunker we have constructed a remarkable environment with freedoms found in few other places.

After a rocky freshman transition to MIT, I came back from summer break early to paint my dorm room in Burton Conner. It might not seem like a big deal to many people, but the ability to paint your room (or your hall) provides you with the ability to create your own environment away from the classroom. Walking past student murals, one inspired by Salvador Dali's "The Persistence of Memory," another by an inside joke from late night psetting, you can't help but feel an attachment to a building where the best form of thermostat during the winter is your ability of living group cultures to spring up My freshman year, I became interested in ensuring that they eat three meals a day. As organically. Other colleges might have spe cialty living groups for freshman or students that desire foreign language immersion, but some of MIT's strongest communities have just emerged, unplanned. There are very few ways that I think you can misstep during your time at MIT, but not getting to know at least one person from every living group is definitely one. I've learned an incredible amount from people that have entirely different goals and outlooks on life.

That same freedom is found in the academic program as well. An MIT education is like an infinite tasting menu. There are no credit limits. There is no special approval required to take classes in other disciplines. You can take a class for ten weeks before deciding if you want to see it through to the end. This is an environment where a biologist can dabble in quantum physics and a management major can explore the engineering behind solar technology. Last semester I spent every Thursday exploring policy analysis, learning the techniques behind computational photography, debating global business strategy cases, and investigating the roots of power and negotiation. At the same time, I had more than one friend that delved deeper into a specific field, taking three classes in circuit design. A similar

window. This freedom contributes to the exploratory flavor exists in research at MIT. overwhelming themselves with classes and synthetic biology, found a mentor, and was working in a lab in a matter of weeks.

This culture of exploration permeates all sides of the campus. Athletics at MIT is similar to many programs at other universities. It attracts incredible athletes. It fields competitive teams. It provides a much needed break from class work. But I think you would be hard pressed to find another place where coaches openly admit that they expect a team to be your second priority. In my brief stints rowing crew and playing lacrosse, both coaches demanded to be put second behind academics. The understanding that academics comes first in all spheres of MIT creates a freedom to pursue extracurricular activities. The shared understanding of our community generates trust and respect among its members. One striking example of this is the relationship that students maintain with the MIT Police. Students seek the assistance of the MIT Police in governing social events, an action unheard of on most other campuses.

Although this freedom provides students with an unprecedented environment for intellectual curiosity, it also comes with the inherent dangers of liability. Other schools limit students for their own protection: unit caps and meal plans are both examples of colleges making sure that students aren't

community is going to attract more attention along with increased pressure to align our practices with those of other universities. This pressure will come in many forms. Some of our traditions, such as hacking, are going to be seen as too risky for MIT to ignore. During budget cuts, some cultural aspects might be viewed as inefficiencies we can no longer afford. For example, the Institute-wide Budget Task Force Report recommends a reevaluation of the current add/drop system. Others, like mural painting, might just be seen as an inconvenience in the renovation of dormitories (although it seems to be safe for now).

Just like all living things, MIT's culture is destined to evolve. In 2011, the Institute will celebrate its 150th anniversary. At the same time our reduced endowment is going to drive significant changes to the daily life at MIT: we will weather the financial crisis, but all of us are responsible for making sure that MIT survives with its identity intact. For us personally, as we grow up, we need to make sure we don't forget who we are and where

Michael Bennie is a member of the Class of 2010 and the former President of the Undergraduate Association.

Steal My Comic by Michael Ciuffo

Steal My Comic Presents:

Three great iPad games for graduates

SleepDep



How long can you stay awake? 24 hours? 48 hours? 72 hours? Are you going to miss pulling those triple all-nighters? Now you can re-live the excitement!

Unlock your potential with this challenging game of physical endurance! Simply launch the app and strap your iPad to your head, and the iPads accelerometer will detect when you doze off. Now version 1.3 adds three different difficulty levels!

Single Streamer



Is this plastic cup recyclable or compost? It says it's biodegradable... Is it the square one or the square one with rounded corners that's supposed to be for recycling? Did I just throw the rest of my pudding cup in the interdepartmental mail bin?

If you never managed to figure out the new garbage system on campus, now's your chance to master it with this fun puzzle adventure game!!

Verde's Run



Travel out into the Cambridge wilderness and weather the freezing elements in search of food. Duck and dodge red-light-running douchebags in the dead of night.

You better hurry though! That bowl of Ramen you ate at 10pm (Jesus, was that really seven hours ago?) won't last you much longer!

Somewhere on the Search for Meaning... by Letitia Li

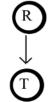
Final Exam

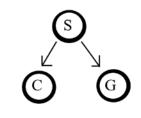
Question 1: Draw a Bayesian Network with the following variables:

- C: The robins are chirping.
- G: A student graduates.
- T: There is traffic.
- R: The Red Sox are playing.
- S: It's spring.

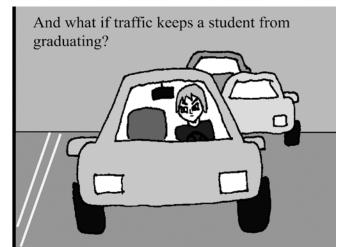
This is easy!

Baseball means traffic, and spring means robins chirping and graduation!



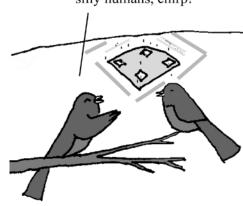


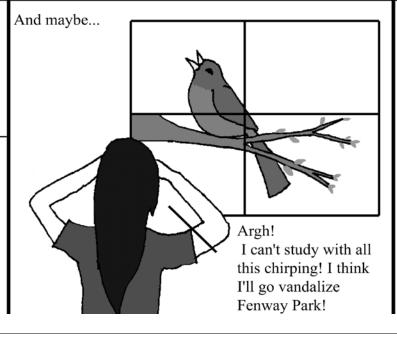
But wait, there's always traffic in Boston!



And what if robins chirp when watching a baseball game?

> Chirp, chirp, look at the silly humans, chirp!

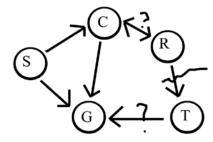




Three hours later...

Dear Professor:

If this is the first question, I don't want to know what was next.



Your final is impossible.

Crossword Puzzle I

ACROSS

- 1 Second to none 5 Caspian feeder
- 9 Madden
- 14 Burn soother 15 One and only
- 16 Pack animal
- 17 Colorful marine mammal 19 Best players
- 20 Made of mud
- 21 Furrow
- 23 Psychic letters
- 24 That woman
- 25 Crisp crackers 27 "Seascape" playwright
- 30 Tom and Denis of golf
- 31 Tuesday in movies
- 32 Cozy room
- 33 In a can in England 36 Actress Gabor
- 37 Colorful ruminant
- 39 Exist
- 40 Become ill
- 42 Tavern
- 43 What we tan

- 44 Pressure unit
- 46 White-sale buy
- 47 Certain New Yorker
- 49 Aberdeen's river 50 College cheer
- 51 For each
- 52 Got on
- 56 Fruit of the mind
- 58 Colorful kodiak
- 60 One of the Astaires
- 61 Falls back 62 Natural tone
- 63 Promoted to excess 64 Float up
- 65 Chinese secret society

DOWN

- 1 Mr. Ruth
- 2 Cinder ending?
- 3 Go bad, as milk
- 4 Grew molars 5 Lead to seats
- 6 Horse shade 7 Entirely
- 8 Ogle

- 9 Slaughterhouse
- 10 Almond or cashew
- 11 Colorful reptile
- 12 Rub out
- 13 Frolics
- 18 Shout of joy
- 22 Irish frieze overcoat
- 25 Harbor hazard
- 26 Wayside stopover
- 27 Fills with reverence 28 Dolly of "Hello, Dolly!"
- 29 Colorful farm animal 30 Married
- 32 Mean
- 34 Pennsylvania port
- 35 Fender mishap
- 37 Backslid
- 38 Corn serving
- 41 Caboodle's partner?
- 43 lcy dessert
- 45 North African nomad
- 46 Connery or Astin 47 Heep of Dickens
- 48 "Marty" writer Chayefsky 49 Use a divining rod
- 52 Moves up and down

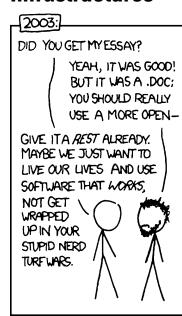
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A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE by Randall Munroe

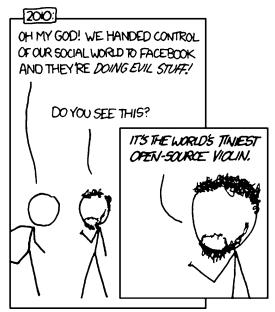
Infrastructures



I JUST WANT PEOPLE TO CARF ABOUT THE INFRASTRUCTURES WE'RE BUILDING AND WHO-

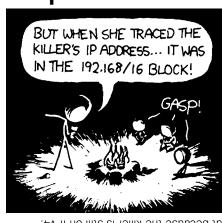
NO, YOU JUST WANT TO FEEL SMUGLY SUPERIOR. YOU HAVE NO SENSE OF PERSPECTIVE AND ARE





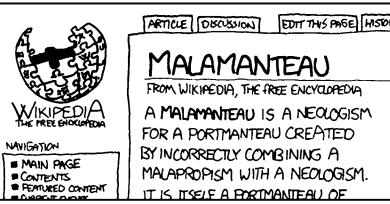
The heartfelt tune it plays is CC licensed, and you can get it from my seed on JoinDiaspora.com whenever that project gets going.

Campfire



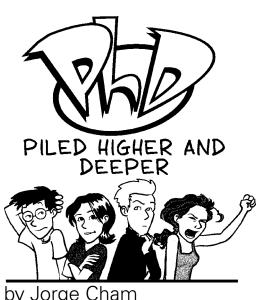
but because the killer is still on IPv4. -not because it's the local network block, 100 years later, this story remains terrifying-

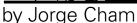
Malamanteau



EVER NOTICE HOW WIKIPEDIA HAS A FEW WORDS IT REALLY LIKES?

from the 1490's and the other twenty-two are arguments on LanguageLog. The article has twenty-three citations, one of which is an obscure manuscript

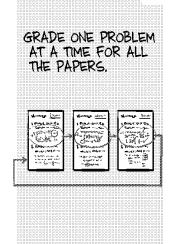






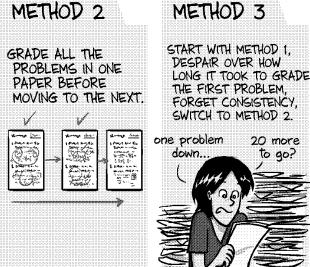


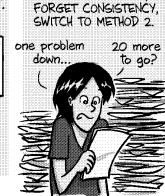
JORGE CHAM @ 2010

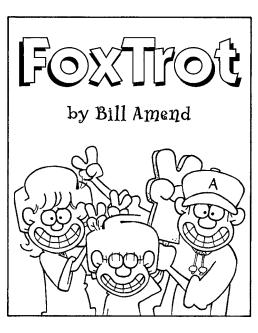


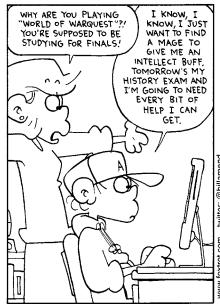
METHOD 1

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Dilbert® by Scott Adams





FUN FUN FUN FUN FUN FUN

Sudoku I

Solution, page 19

	2	4			6	8	9
	7						
5			8				
	3		5 3 6	7	8		
8		2	3	9	7		5
		2 5	6	1		2	
				6			2
						3	
9	5	1			4	7	

Sudoku II

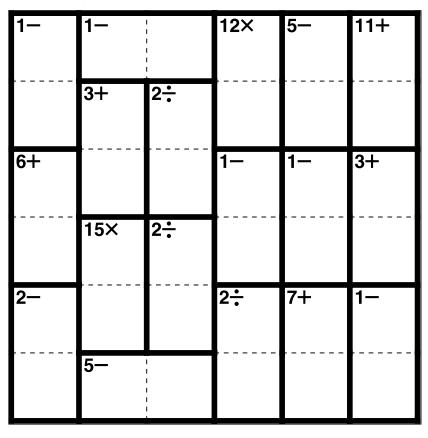
Solution, page 19

3	1	7						5
	5				6	7		
			7		5		1	8
	2	1		5		8		
		6		4		5	7	
1	8		6		2			
		5	8				9	
6						1	8	7

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

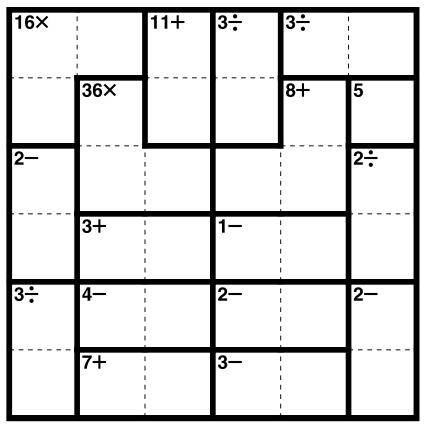
Kenken I

Solution, page 19



Kenken II

Solution, page 19



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1 through 6. Follow the mathematical operations for each box.

Crossword Puzzle II

Solution, page 19

ACROSS

- 1 Spiritual leaders
- 6 Consumer protection org.
- 9 Use elbow grease
- 14 Vote in
- 15 Letters on cars
- 16 Stomachs of ruminants
- 17 Recapitulate
- 18 December Day
- 20 Funny Philips 21 City in Pennsylvania
- 23 Ball carriers, briefly
- 24 Squealers
- 26 Pixie
- 27 Green target
- 28 Make clucking sounds
- 31 Dodges
- 33 Raccoon's cousin
- 34 Lacking values
- 37 Reminder of times past
- 38 They: Fr.
- 39 Legal
- 43 Lurks
- 45 Black
- 46 Quamash 49 Ring-shaped

- 52 Boob tubes
- 55 Aleutian island 56 Saul's uncle
- 57 Confession
- 59 Letters for 1051
- 62 February Day
- 64 Dynamite inventor
- 66 Pathogenic bacteria 67 Inhabitant of: suff.
- 68 Elicit
- 69 French historian
- 70 Score figs.
- 71 Bird in "Peter and the Wolf"

DOWN

- 1 __-majesty
- 2 Bard grad, e.g.
- 3 May Day
- 4 Prefix for puncture
- 5 March Day 6 Datum
- 7 Lake near Reno
- 8 Entertainer Channing
- 9 Sammy of baseball 10 "Most Wanted Live" stn.

- 51 Arabian sultanate 11 Exemplar of stiffness
 - 12 Operative
 - 13 Deep voices
 - 19 Deduce
 - 22 Fighting Tigers of the NCAA
 - 25 Crafty person?
 - 27 Large flatfish
 - 28 "Born on the Bayou" grp.
 - 29 Weeder's tool
 - 30 Beach toy
 - 32 February Day

 - 35 Jan. Day
 - 36 Greek peak 40 October Day
 - 41 Balin or Claire
 - 42 Norse deity
 - 44 You in the Yucatan
 - 46 Marine eel
 - 47 Punish arbitrarily
 - 48 Abandon
 - 50 Map reader abbr.
 - 53 TV monitor
 - 54 George C. _
 - 57 Nabokov novel 58 Puts on years

- 60 Mr. Walesa 61 Ends of small intestines
- 63 Tail of a fib? 65 Harem room

What MIT taught me

A soon-to-be graduate says good-bye

By Laila Shabir

After spending all these years walking across 77 Mass Ave, it is only natural that I should ask myself what I have learned from the Institute. The more interesting question would be to ask what I "haven't" or "couldn't" learn. I'll go with "haven't," because it puts more weight on personal responsibility definitely learned about that at MIT!

I'm graduating today and I still don't know how to get shiny straight A's and sleep and still have time for a social life (does group psetting count?). MIT, I've realized, is like that very hot, jealous and possessive girlfriend that will slowly but surely scare all your friends away so she can have all of you for herself. At times she might also make you feel inadequate and worthless. You hate that about her, but she keeps you hooked and addicted, indulging your fantasies and desires every so often. That is not to say she's pure evil — there will be times when she will appreciate that you're a part of her life and will reward you for hanging in there. Without stretching the metaphor any further, what I think I'm trying to say is that I knew what I was signing up for when I sent in my acceptance letter. I had done my research, but like

every bright eyed freshman, I shrugged it off thinking "I'll be the exception, because hey, I've always been one." Little did I know that at MIT, being the exception is the rule.

MIT did not teach me to be lazy. I simply do not know how to kill time without being overridden by guilt. We're here to "punt" and "tool;" how dare we "loaf" and "loiter"? While I do value hard work, I have come to believe that genius isn't all a result of tooling — there is a sense of purpose in aimlessness, too. I have long wondered about finding the time to "think" or to "be," and not just to "do." If we're constantly drinking from the fire hose, then when, if ever, are we going to take deliberate sips from this intoxicating fountain of youth? Constant action is dreary and sometimes even depressing. W.H. Davies' "Leisure" could not have depicted my sentiments any better:

> "What is this life, if full of care, We have no time to stand and stare."

All that being said, there are far too many things I would have missed out on had I attended another institute. MIT taught me to be a "man," to toughen up and deal with whatever crisis came my way. I remember freshman year when I had just failed a physics test — the first time I had ever failed anything. Needless to say, I was devastated. I decided to seek out a friend for sympathy and some advice, since he was a physics major. I wasn't even finished venting before he pulled out a scratch piece of paper and a pen and sketched out an Atwood's machine (pulleys and ropes). I didn't even have to ask for help! Collaboration (and brilliance, of course) come as second nature to all my peers at MIT, and to be honest, I do not know how I would have survived all these years without them!

I have always been amazed that nobody here patronizingly tries to solve your problems for you. Instead, they point you to the incredible resources available to students. I know I've sought support from places like S^3 to Financial Aid, not because my friends were too busy, but because that's what made the most sense. I could not have made it through some of my most stressful hours without their continuous support. For always being there to guide me and help me make the right decisions, I'd like to say a big "Thank you!"

At MIT, I learned to be patient, and to truly believe that "this too, shall pass." MIT taught me the difference between arrogance and confidence and the value of humility and empathy. I learned to look beyond the little bubble of my own life, into the world that needs our help. I learned the importance of giving back, both in action and in intent. The weight of an MIT education comes with its own world of responsibility. For four full years I have witnessed faculty and students alike live and breathe the Institute's mission — "making the world a better place." Today, that mission is a part of who I am and more of who I would like

And finally, as an economics major, at any other school I would probably have gone all my life without studying DNA replication and Maxwell's equations! For that, and so much more, I am indebted to the

And so, even though I'll be graduating and leaving campus soon, a part of the Institute will always be with me wherever I am. After all, you can take the beaver out of MIT, but you simply cannot take MIT out of

BROUHAHA RHYTHM

Crisis on multiple majors Like a mid-life crisis, but with less financial independence

By Michael T. Lin

CAMPUS LIFE EDITOR

Well, that's it for junior year. Grades are in, sighs of relief have been released and blood pressure is back down. Yet a single understanding hangs over my head like an incontinent pigeon: in a matter of months, I'll be a college senior. High-pitched, hyperventilated screams of panic abound. It's not just the looming graduate school or reality, or the fact that I still don't know which one it's going to be. It's not my inability to decide what I want to do or why, either. Nor is it the knowledge that many of my best mentor figures are going off to do with confidence aplenty the very things I'm panicking about. It's...well, actually, I'm not entirely sure what it is, but it most certainly isn't any of the above. No, sir, most definitely not one of those.

I've always been indecisive (I think),

and when it came time to pick a major, it was a minor miracle that I found something that I felt suited me. Even more miraculous, but decidedly less convenient, was when I found a second, very different major that also suited my interests. Unable to find a compelling reason to let either one go, I'm still doing both majors now. As much as I like them both, though, conflicts of scheduling (and interest) between them both have been inevitable. Every time a class in one major occupies the same time slot as one in the other, the same process of questioning my commitment/reaffirming my ability/smothering my nagging doubts in junk food takes place, although the junk food thing is pretty much par for the course on any given day, anyway. Fruit snacks are hard to resist. By now, I suspect I'm too far along to drop one of them. If I stopped doing one, I'd be giving up doing what I enjoy, which seems insincere; if I stopped doing

the other, I'd be throwing away a chance to do something scientifically beneficial, which seems unethical.

Related to my aforementioned academic angst is the question of what I'm going

In a matter of months, I'll be a college senior. High-pitched, hyperventilated screams of panic abound.

to do after MIT. Graduation as scheduled is but a short year away, and I'm still not sure what's next on my list. My inner engineering major is begging to go into graduate school, while my humanities major beckons me to industry. Even if I threw myself fully into the humanities, I'd still have to answer the question of where in the humanities I'd want to go. I'm interested in working in movies, video games, and even a smidgen of theatre, so unless my job is putting together VH1 nostalgia specials (which actually sounds like it wouldn't be too bad), at some point I'd probably have to be terrifyingly specific.

At any rate, one point seems abundantly clear, even if not much else seems to be — I've got one summer to at least try to decide what on earth I'm going to do with my life. A letter in my mailbox might tell me I was randomly selected to be in the first Mars colony expedition, which would simplify the matter considerably. Although knowing my luck, it'll probably just be jury duty. I guess that's the price I pay for being wishy-washy. Now, if you'll excuse me, I have to decide what I want to do tonight. Should only take me five or six hours, at which point I'll have to decide what to have for dinner — tomorrow.

The Next Mudslinging Four Years Campaigns Gay Marriage Nuclear Policy ve a damn? Do something about it! letters@tech.mit.edu

10 THE TECH Friday, June 4, 2010

Nick Sisler: 'big brother'

Recognized for work with eleven-year-old

By Jingyun Fan

Many MIT students are searching for a way to help others. Nick Sisler '11, Course II, has discovered how to make a difference in the life of an 11-year old boy. Nick has been a "big brother" to Evan Wilcox for three years, and was recently selected as a finalist for the Massachusetts Bay Big Brother Big Sister of the Year award. The Big Brother Big Sister program pairs children aged 6 through 18 with older mentors to develop "positive relationships that have a direct and lasting impact on the lives of young people," according to their web-

During the matching process, Evan's mom, Trudy Wilcox PhD '05, who is a single mother, was looking for someone younger and athletic to spend time with

"Evan's relationship with Nick has enriched Evan's life so much," Wilcox said.

The power of winning

One of the incidents Wilcox cites when comparing the difference from before Nick became Evan's big brother to afterwards is the two annual pinewood derby car races that Evan competed in.

The first year, she had let Evan build the car alone without any help, not realizing that all the other boys had fathers who built the car with them.

"Evan and I walked into the pack's meeting room and I was stunned to see a roomful of dads holding their son's derby car," Wilcox wrote in her nomination essay for Nick's award. "I knew immediately that Evan and I were out of our league." The experience of that failure was a hard

The next year, Evan had a big brother to help him with his car. Even though the result was a car covered in duct tape, weighing within 1/100th of an ounce of the 5-ounce weight limit set by competition regulations, and initially sneered at by the other boys, it easily overtook the other cars and won the preliminary

"With Nick's help, Evan learned what it felt like to win," Wilcox wrote.

A new passion

Some of Nick and Evan's favorite things to do are to go bike riding, to play catch, and most importantly, to play

When Nick had been on the MIT hockey team (which was eliminated in 2009 along with seven other sports pro-



Nicholas D. Sisler '11 poses with his "little brother," 11-year-old Evan Wilcox. Nick has mentored Evan Wilcox for three years, and was recently selected as a finalist for the Massachusetts Bay Big Brother Big Sister of the Year award.

grams), he took Evan to games and got Evan more interested in playing hock-

"Evan has really blossomed with hockey" said Evan's mother, "It's been the first thing that he has felt really good about himself. Last year, Evan wanted to go to every single MIT hockey game. So the team got to know Evan, and they would bang on the wall and fist pound him as they got on the ice."

Wilcox said that Evan had been a kid who had few friends and struggled in school, and while children like these usually used sports to improve their social standing, Evan did not know how to navigate team sports. Nick also reports that Evan is now starting to do things that kids do normally, like having slee-

Last November, Evan went to a practice with the MIT hockey team at Johnson ice rink. He geared up in an MIT hockey jersey and did drills along with the team. The coach instructed the team to jump over eight hockey sticks on the ice. Evan initially only jumped over the first stick and skated around the others, but the coach instructed him to start at the beginning and complete the entire

Later, Evan had a shoot-out where only he and the goalie were on the ice. The entire team cheered wildly when Evan shot his puck into the goal.

"It's not too much for us to do," Nick said "it's amazing how huge it was for his confidence to go out with a bunch of 20year olds who are good at hockey and are cheering him on.'

"Evan is [the MIT hockey team's] biggest fan, and he comes to all of our games, including the away games, so it's natural for the team to take to him,"

A small effort goes a long way

"Being around [Evan] gives me a new perspective and reminds me of how I was as a ten-year-old, which is very refreshing especially at such a high stress environment as MIT," Nick

In Nick's busy schedule as a student, hockey, and lacrosse player, it is difficult sometimes to have enough time, but that Nick says he can usually find an hour or two to hang out with Evan.

"He doesn't have a male role model in his life, besides me, I guess, and that's really good for him to have a male figure to look up to. And he hasn't played any organized sports until I became his big brother and encouraged his mom to get him involved and he's enjoying that a lot more," said Nick.

According to Nick, it is not hard to be a good big brother, it just takes patience and time. "Over time, I find out what he likes..." Nick says, "We started having discussions about school and talk about his friends, and I've started to reach in as time goes on."

Today, Evan says his dream when he grows up is to be an architect. He spends his time with an architectural kit building miniature replicas of famous buildings. His favorites are the Eiffel Tower and the Leaning Tower of Pisa. "I like to build things," Evan says.

"It's amazing how things that I didn't think would ... actually make a huge deal in his life... It doesn't take much for

Opposite N42, a new bakery opens

Slocum named to energy

secretary's oil spill panel

MIT professor of mechanical engineering Alex-

Chu announced the appointment on May 14,

Slocum is joining Jonathan I. Katz, a physics pro-

and the group of scientists convened for a prelimi-

nary meeting at the BP command center in Houston

fessor from Washington University; Richard L. Gar-

win, a JASON think tank member, physicist, and co-

designer of the first hydrogen bomb; George Cooper,

a civil engineering professor from the University of

California at Berkeley; and Tom Hunter, a nuclear engineering and security researcher from Sandia Labo-

ratories, in order to help formulate plans to address

Obama announced that he had appointed Senator

Bob Graham of Florida and former EPA Administra-

tor Bill Reilly to lead the "National Commission on

Americans, including leaders in science and engi-

hearings, will work alongside other reviews, includ-

ing an independent examination by the National

to present their research as part of a laboratory tour

Slocum, reached by email, declined to comment.

In a speech delivered Wednesday, President

"Very soon I'll appoint five other distinguished

The new commission, which will hold public

Slocum was also among the group of scientists

-Ana Lyons

ander H. Slocum '82 was recently appointed by U.S. Energy Secretary Steven Chu to join a group of five scientists whose primary purpose is to devise alter-

native strategies to help slow the BP oil spill.

shortly thereafter.

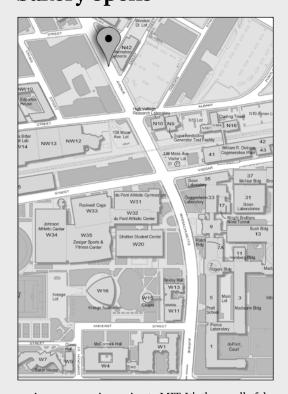
the environmental crisis.

the BP oil spill in the Gulf."

Academy of Engineers.

neering, to join them," he said.

when Obama visited MIT last fall.



A new aroma is coming to MIT. It's the smell of delicious cookies, breads, and pastries from Flour Bakery and Cafe's newest installation, Flour3. According to the bakery's website, http://www.flourbakery.com, the new location hopes to open before the end of June. The new location will be firing up its ovens on 190 Mass Ave., right next to Central Bottle, the new wine store that opened in November, and opposite the Information Services and Technology building.

Located between the Student Center and Random Hall, Flour3 will act as MIT's closest specialty bakery. In the mornings, it will serve a wide assortment of gourmet breakfast pastries and breads including sticky buns (\$2.75), sour cream coffee cake (\$2.75), and banana bread (\$2.25). Other baked goods include cookies, macaroons, brownies, sandwiches, tarts, and cakes. All baked items will be prepared on-

Daily and weekly specials will also be available, consisting of a type of soup, quiche, stuffed bread, pizza, and sandwich. In addition, take-out dinner specials will be available each week for people on-

Flour Bakery has established itself as one of the best bakeries in Boston, winning Best of Boston awards in 2002, 2003, 2005, 2006, and 2008. The bakery has also been featured in Gourmet Magazine, The New York Times, and Food Network show "Throwdown with Bobby Flay," in which Flour Bakery chef and owner Joanne Chang outperforms Chef Bobby Flay in a sticky bun battle.

For more information on Flour Bakery's menu and background, or to read its blog "Cookbook," see www.flourbakery.com.

— Robert McQueen

Senior class gift sets record

Gift will fund summer housing for interns

Commencement, from Page 1

Stata Venture Partners, a venture capital firm specializing in technology start student and made a very successful ca-

Stata and his wife, Maria, donated \$25 million to MIT in 1997 that allowed the construction of their namesake Ray and Maria Stata Center, designed by Frank Gehry. At the time, it was the largest gift ever given for a building project

MIT Chaplain Robert Randolph will start off the commencement ceremony, followed by a singing of the national anthem. Dana G. Mead PhD '67, the outgoing chairman of the MIT Corporation, will then introduce Stata for his commencement speech. Following Stata's address, the outgoing Graduate Student Council President Alex Hamilton Chan and the 2010 Senior Class President Jason A. Scott will speak as well. President Susan Hockfield will then conclude the ceremony.

During Commencement Day, the position of chairman of the MIT Corporation will also pass from Dana G. Mead to John S. Reed '61, who was elected chairman at a Corporation meeting early this

"[Stata has] done a lot for MIT," said Scott, "we wanted someone who is involved at MIT and knows what it is like

"Stata has pretty interesting experiences," said Chan, "he started as an MIT reer out of doing very nerdy stuff."

All graduates who are to be awarded degrees were given four guest tickets for commencement, and policy does not allow tickets to be bought or sold. However, as of June 2, four commencement tickets are available for sale on Craigslist. Three for \$111, and one for

Guests with tickets may enter Killian Court starting at 7:30 a.m. A webcast of the ceremony can be viewed online at http://web.mit.edu/commencement/2010/webcast.html.

A reception on Kresge Oval will be held after the ceremony. No tickets are required for this event.

The Chancellor's "Committee on Protocol for Demonstrations at Commencement and other Academic Exercises" has released a statement on the MIT policy on demonstrations. The committee has established general locations that are available for demonstration and leafleting that will not interfere with the Commencement Exercise. All persons entering Killian Court and Johnson Athletic Center will be electronically scanned for security reasons.

Senior Gift Summer Housing

MIT encourages graduating seniors to donate money to the Senior Gift Campaign, which designates a yearly "class project," but each donor may specify different funds that their gift goes to. This year, the senior gift project is the Summer Housing Fund, which will offset housing costs for MIT undergraduates participating in unpaid and underpaid internships and volunteer work during

As of Wednesday, a record 72.8 percent of graduating seniors of the class of 2010 had donated to the Senior Gift campaign, shattering 2009's record of 65 percent. According to Rosheen B. Kavanagh, who handles the Senior Gift for the Alumni Association, unlike previous years, seniors this year had reached their goal of 70 percent participation by May 10 and had exceeded their goal by the last day of classes.

This year, a total of \$15,276 was raised for the Senior Gift. The Summer Housing Fund received \$8,300 from 304 donors.

Because the seniors met their challenge of 70 percent, the Senior Gift challenger and the current Alumni Association President Kenneth Wang '71 will donate \$25,000 to the Class of 2010Summer Housing Fund.

Wheeler ensnares campuses with 'life of deception'

By Jacques Steinberg and Katie Zezima

THE NEW YORK TIMES

There were, in hindsight, plenty of reasons for the admissions office at Harvard to be suspicious of Adam Wheeler.

When Wheeler, now 23, applied as a transfer student in 2007, for example, he sent along fabricated transcripts from Phillips Andover Academy and the Massachusetts Institute of Technology. In fact, he had graduated from a public high school in Delaware and had attended Bowdoin College, in Maine.

One tipoff could have been that MIT does not give letter grades in the fall semester of freshman year, like the straight A's that appeared on the grade report that Wheeler submitted. And the names of the four MIT professors who wrote his glowing recommendations? The letters were fakes. And while the professors were real, each teaches at Bowdoin.

In the end, it was Wheeler's parents who intervened and brought an end to his adventure in fabrication.

At an arraignment Tuesday in Middlesex Superior Court in Woburn, Mass., Wheeler was charged with 20 criminal counts, including larceny, because he received nearly \$50,000 in scholarships and awards from Harvard.

In recounting how the case came to light, Assistant District Attorney John Verner told the court of a phone call that Wheeler's parents, Lee and Richard, received from Yale University this year.

By then, Wheeler had left Harvard, rather than face an academic hearing over accusations he had plagiarized the work of a Harvard professor in his application for a Rhodes Scholarship. He then applied as a transfer student yet again, this time

to Yale and Brown.

After Yale contacted Wheeler's parents, who were in court Tuesday, to express doubts about the veracity of parts of his transfer application, they insisted that their son tell Yale the truth.

"Mr. Wheeler's life of deception would not have stopped if it were not for his parents," Verner said.

"Mr. Wheeler's life of deception would not have stopped if it were not for his parents."

Wheeler's defense lawyer, Steven Sussman, said after the hearing that his client "pleaded not guilty, as everyone heard" and that "he's never been in trouble before."

Wearing a denim jacket and a T-shirt, his gaze mostly downward, Wheeler listened as Verner spun a narrative reminiscent of the movie "The Talented Mr. Ripley."

But the prosecutor provided no answer to a central question: how had Wheeler slipped through the Harvard admissions committee?

Harvard officials declined Tuesday to comment on the case, citing the inquiry and federal rules on student privacy.

Other prestigious colleges have seen similar cases before. Two years ago, Yale determined that a student who successfully transferred from Columbia had forged his transcript to give himself straight A's. Connecticut authorities later charged him with larceny, over the \$32,000 in scholarships he'd received.

In 1993, another man pleaded guilty to theft by deception in New Jersey, for obtaining \$22,000 in financial aid from Princeton.

Edward de Villafranca, dean of college counseling at the Peddie School in Hightstown, N.J., said that such applicants can sometimes slip through admissions screening because "there is an expectation that students in this situation act honorably and truthfully."

"It is not in our inherent nature in our industry to be suspicious," added de Villafranca, who has worked in admissions at Manhattanville College and the University of Richmond. "This is not 'CSI Harvard."

De Villafranca said that Wheeler had likely exploited one potential loophole: because he applied to Harvard as a transfer student several years removed from high school, his school counselor — ostensibly at Phillips Andover — might not have been contacted by Harvard about his application.

Wheeler had come close to being caught at Harvard after his admission interview with a Harvard alumnus. It took place in 2007 at Bowdoin, which, Verner said, was a red flag to the alumni interviewer, who had been told he was meeting a student from MIT.

But, as was apparently so often the case with Wheeler, he had a ready answer for the alumnus, who was not identified.

Wheeler said he had finished his MIT coursework early, telling the alumnus, "Instead of wasting time, I decided to come to Bowdoin to help a professor work on a book," according to Verner.

It was not immediately clear whether the alumnus' skepticism, and Wheeler's response, were ever passed on to officials at Harvard. (As Harvard would later learn, he had been suspended from Bowdoin for "academic dishonesty," according to the indictment.)

Even before Yale reached out to Wheeler's parents this spring, officials and professors at Harvard had their own concerns.

In September, when Wheeler began his senior year at Harvard, an English professor read his Rhodes submission and saw similarities between it and the work of a colleague. When confronted by Harvard faculty members, Wheeler remarked, "I must have made a mistake, I didn't really plagiarize it," according to Verner. He soon withdrew from Harvard.

Harvard officials then began reviewing his transfer application, and discovered it had been falsified — including the MIT and Andover tran-

"It is not in our inherent nature in [the admissions process] to be suspicious."

scripts, Verner said.

Harvard said in a statement last month that "in the rare instance where we discover that someone has falsified his or her application materials to Harvard College, we typically rescind that individual's admission" and "revoke" any course credits received

Separately, Yale began its own inquiry when Wheeler applied for transfer admission earlier this year.

Officials at Caesar Rodney High School in Camden, Del., from which Wheeler graduated in 2005, said they were contacted in April by Yale admissions officials. Yale wanted to confirm that he was the class valedictorian (he was not, though he was in the top 10 percent of the class) and that his SAT scores were perfect (they were several hundred points lower.)

Wheeler's father taught shop and drafting at the high school, and retired last year. "It seemed out of character that the young man we knew would try to pull off this type of hoax," said Kevin Fitzgerald, the district superintendent, who was principal of Caesar Rodney when Wheeler attended. "That conversation between our guidance office and the Yale admissions officer sent up the red flags."

But there were other warnings. In February, Wheeler applied for an internship at McLean Hospital, an affiliate of Harvard Medical School, in which he "provided fraudulent information regarding his credentials and student status at Harvard," the hospital said in a statement.

In applying to Yale and Brown, though, he not only suggested he was a McLean employee, but also submitted a false letter of recommendation from the McLean official who had refused to hire him.

He also provided Yale and Brown with a falsified recommendation from David Smith, his resident dean at Harvard, the district attorney's office said.

It was Smith who had informed Wheeler of the plagiarism accusations regarding his Rhodes applica-

The New Republic reported Tuesday that Wheeler had recently applied for an internship at the magazine, and it posted the resume he submitted online.

It included references to his being able to speak French, as well as "Old English" "Classical Armenian" and "Old Persian."

Jacques Steinberg reported from New York and Katie Zezima reported from Woburn, Mass. Additional reporting was contributed by Rita Farrell and Trip Gabriel.



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FRIDAY, JUNE 4 10 A.M. – 3 P.M. STUDENT CENTER LOBBY

Jazz it up with some EV00

New restaurant spices up Kendall Square with eclectic options

By Martha Angela Wilcox

STAFF WRITER

Though I don't normally think of Kendall Square as the happenin' place in town (most of the Cambridge nightlife and restaurants are clustered in Central Square), EVOO has spiced up the scene and brought the crowds to an area previously devoid of palatable pizazz. EVOO (which stands for "extra virgin olive oil"), though new to the Kendall Square area behind the Mariott hotel, is no newbie to the culinary world. The restaurant moved from Somerville just over a month ago.

My date and I were greeted in the front by a very friendly hostess, and immediately led to a table by an open-air kitchen, bustling with chefs who had wonderful matching black hats. If you're a party of two, I highly recommend requesting these tables. We were entertained by the nearby chefs at work, and though the tables are high, the seating is comfortable and overlooks the entire modern atmosphere of the restaurant

The service was well-paced in all respects. The menus weren't rushed at us, so

we had time to settle into our seats and enjoy small talk before being presented with an extensive menu. Though it all fits on one page (an extra long page!), there are plenty of options to choose from — plan to spend \$35 to \$40 for a three course meal. The menu does take some time to wade through, however, because unlike most restaurants, the descriptions here are extensive. Every ingredient is listed in the description, so you know exactly what is in the dish and even where it comes from. The menu is certainly fun and full of local produce and meats, but be prepared to do a little reading (I've abridged the titles in my following descriptions!).

We started with littleneck clams steamed with bacon, kale, white beans, white wine, basil and EVOO's country pâté with pickled raisins, whole grain mustard, and grilled bread (each \$10). The clams portion was somewhat small, but the sauce it had been steamed in was incredible, especially when drizzled on our bread. The pâté portion on the other hand was rather large, though not as outstanding. That said, the pickled raisins were so tasty that I went digging for a recipe to make some

myself the very next day.

For our main dishes, we ordered the mustard glazed baked bluefish fillet with smoky pig skin risotto, crisp onion rings, and a beet vinaigrette as well as a jalapeño laced chicken sausage with fried buttermilk brined chicken drumstick paired with apple slaw, plantain chips, and a slathering of very tasty barbecue sauce (each \$25). The fish was perfectly tender, and the beet vinaigrette lent the whole plate a vibrant but exciting red color and sweet flavor that matched the savory onion rings and salty pig skin well. The barbecue sauce dominated the chicken dish, but as an elegant variation on good home-style cooking, this dish worked well.

The finale was two beautiful desserts. We even had the pleasure of watching them being assembled. The panna cotta with fresh whipped cream and rhubarb was quite refreshing and without the heavy finish I was expecting, especially given the large portion sizes. The tarragon-infused gold beet and orange sorbet parfait with fennel sugar cookies on the side was equally light and a nice way to end a beautiful and tasty meal.

I often judge a restaurant on whether I

EVOO

350 Third Street Kendall Square

Travel time from 77 Mass Ave: 16 minutes walking

could make the same dish at home. EVOO's inventive and eclectic food brought together combinations I would have never dreamed of but was glad I had tasted, when the fork touched my pallet. The menu descriptions, while thorough, are approachable yet creative, and there's almost something for everyone. Vegetarians, be warned — there were only one or two vegetarian options.

If you're going with a group, know that most of the tables hold no more than five guests. However, there is a private dining room that can host 32 people. Make reservations early, because even though EVOO just opened in Kendall Square, they already cater to a full house even on the weeknights.

BALLET REVIEW

Balanchine presented via a trio sampler

The Boston Ballet performs the Ultimate Balanchine

By Tina Ro

The *Ultimate Balanchine* is not a ballet centralized around a single storyline. It instead focuses on the famous choreographer George Balanchine (1904-1983), known both for his mastery of traditional ballet technique and for his revolutionary style that founded modern ballet. The *Ultimate Balanchine* is a compilation of three of Balanchine's ballets: *The Four Temperaments, Apollo,* composed by Igor Stravinsky, and *Theme and Variations,* composed by Tchaikovsky. The very distinct styles piece together form a program that displays the extensive range of Balanchine's career.

The performance begins with *The Four Temperaments*, a ballet made by New York City Ballet, which Balanchine co-founded. *The Four Temperaments* refers to the psychological idea that all humans can be categorized by the four "humors," later called "temperaments." What these four temperaments are have been changed and modified throughout time. The musical piece defines them as the choleric, the melancholic, the phlegmatic, and the sanguine. Being a typology enthusiast, I was naturally engulfed by the physical manifesta-

tions of the human characters. The vivid choreography is intensified by removing the degree of separation to which traditional ballet choreography is restricted. The dancers exist to express the intrinsic personalities themselves, not to perform actions associated with the emotions that support an overarching storyline. With the focus placed upon the temperaments alone, the expressions directly connect to the emotions

Balanchine took a risk placing the ballet as a stand-alone, without the aid of a plot, scenery, or costumes. Stripping away the distractions, the ballet is left with only its core elements — the dance itself, the unique movements, and detachable rhythms. Balanchine powerfully isolated his ballet to leave room for what he believed to be the pure elements of dance, and he revealed the intimate connection between the music and the dance. The dancers are the visual form of the musical score. The musical score is the auditory form of the dance. The audience is challenged to comprehend the intricacies of ballet by glimpsing the deep interconnectivity of choreography.

Next up was *Apollo* (1928), an example

of the influential collaboration and enduring relationship between Balanchine and Stravinsky. Embodying the majestic and glorious style of Greek and Roman mythology, *Apollo* presents the eponymous character in crisp white, offset by the fresh blue canvas that he stands against. He is visited by three muses: Calliope — the muse of poetry, Polyhymnia — the muse of rhetoric, and Terpsichore — the muse of dance. *Apollo*, referred to by some as Balanchine's first notable work, exemplifies his neoclassical flavor.

Finally, the performance finishes with Theme and Variation, which is set to the final movement of Suite No. 3 for Orchestra in G major, Op. 55 (1884) by Tchaikovsky. Theme and Variation presents a more traditional ballet scene: a slew of ballerinas in tutus and crowns, fluttering gracefully in unison across the stage. Although less remarkable, the third act provided yet another dimension to Balanchine. It was an experience similar to appreciating Picasso's work prior to his entrance into his colorful periods, acknowledging the artist's raw talent and mastery of technique prior to his deconstruction and reworking of the fundamentals. After the intensity and The Ultimate
Balanchine
Boston Ballet Company
May 8, 2010
Boston Opera House

dramatic personalities of the previous two acts, *Theme and Variation* ended the show on a calm note of simplicity.

The *Ultimate Balanchine* presents all the lures of a tasting menu. Requiring a mere 2-hour commitment, the show takes the audience on a travel through the vast capabilities of arguably the most influential choreographer in the 20th century, George Balanchine, complete with a palette cleanser (or intermission) between each course.

The *Ultimate Balanchine* continued at the Boston Opera House until May 16. More information about the show is available on the Boston Ballet website, www.bostonballet.org.

RESTAURANT REVIEW

Fresh French feasts right in our backyard

Though pricey, Craigie on Main makes up for it with delicious French cuisine and a local New England flair

By Martha Angela Wilcox

STAFF WRITE

I finally understand how Craigie On Main has appeared on the "Best of Boston" list year after year. After just my first visit, it easily moved to the top of my list, too. Off Main Street in Central Square, Craigie is anything but casual, perfectly pairing complex French cuisine with the simple taste of local New England. Classic 1920s prints decorate one wall, while another is adorned with myriad cooking pots and books. The rustic French design is complimented by a spacious open kitchen where diners can watch Chef Tony Maws busy at his art. The menu fluctuates with the seasons, and it's compiled only with the freshest and often organic, but always local meats, fish, and vegetables. If you're craving passionfruit out of season, you won't find it on this menu. But if you want the richest, tangiest rhubarb flavor during the

spring, the "Market Fruits Crisp" paired with canela ice cream is definitely for you.

There are several menu options for every occasion at Craigie On Main. If you're looking to be ravished by exquisite and complex dishes that the chef dreams up on the spot with your taste recommendations as his outline, then the "Craigie Experience," which comes in the 6-course and 10-course versions will suit your needs. If you desire vegetables for every part of the meal, many of the dishes can be prepared vegetarian. If you'd prefer to select your dishes from a menu, then there's a prix fixe menu price for an appetizer, entree, and dessert plus a paired dessert wine, (\$75) or you can simply choose anything from the à la carte menu. My date and I chose the à la carte menu for a lighter experience, but I intend to return to the restaurant for the culinary surprise of the "Craigie Experience" in the near future.

Craigie teases the pallet with an *amuse*

bouche or a "little bite" before the meal begins. I received the house-cured pork belly with a slice of local mozzarella drizzled in Alphonso olive puree, and my date was presented with a Moroccan-spiced cured salmon with a touch of orange vinaigrette. The pork belly was good, but the cured salmon was spectacular, giving us a hint of what was to come.

We started with the grilled Spanish octopus with cipollini onions, hearts of palm in a lemon salad, and garbanzo bean puree (\$18) and the assiette of three housemade terrines with traditional accompaniments that included whole grain mustard and jams (\$15). The octopus had that perfect grilled texture, just a bit crisp on the outside and moist on the inside, and the deep-flavored puree and vegetables had a hearty quality to them. The flavor wasn't intense, it wasn't overbearing, but it was just perfect. The terrines, especially the foi gras au torchon, were quite rich with a

Craigie on Main 853 Main Street Central Square

Travel time from 77 Mass Ave: 10 minutes walking

velvet smoothness — or so we found out when we finally took a bite. It was almost too difficult to take a fork to such a beautiful culinary arrangement that might have fit in as a piece of artwork on the wall. Almost.

We then moved on to the entrees along with a side of traditional French asparagus. I ordered the Schmaltz-poached wild

Craigie on Main, Page 13

Central's "Craigie Experience"

Craigie on Main, from Page 12

Alaskan king salmon mi-cuit with beets, asparagus, and horseradish-whitefish roe vinaigrette (\$30). Mi-cuit is a method by which the salmon is cooked for a longer period of time at a very low temperature, allowing it to retain the tender quality of raw salmon (our waiter was extremely kind to describe the process to me). I had never had mi-cuit before, but I was wowed. Salmon is usually somewhat dry and tough after being cooked and generally loses most of that distinct fish flavor, but the salmon I had at Craigie was nothing like that. Its flavor could stand on its own even without the delicious vinaigrette, and it had a melt-in-your-mouth quality. My date ordered the all-natural hangar steak with oxtail ragout, spinach, and glazed shallots (\$36). The steak was milder than the usual affair without its characteristic sharpness, but the meat was still tender, flavorful, and rounded out nicely by the ragout.

Finally, we came to the sweet treat — the grand finale of every meal. I ordered the cardamom and vanilla arboria rice pudding with glazed pineapple bits, Macadamian nuts, and topped with a pina colada sorbet (\$10). Rice pudding is a favorite treat of mine, but this tasted only vaguely like the Plain Jane rice pudding I've had before. A closer description would be a tropical and refreshingly-chilled pineapple beverage on a hot deserted beach in the Dominican Republic. The dessert may have looked small on the plate, but it was packed with flavor and I relished each bite. My date adores chocolate, so he picked the Taza double chocolate tart with espresso ice cream and hazelnuts (\$10). We learned (again from our helpful waiter) that the Taza chocolate is an organic rich chocolate locally made in Somerville with a taste similar to Mexican drinking chocolate. The chocolate tart wasn't especially impressive, and the espresso ice cream was a bit strong for me but if you're looking for a dessert version of your classic espresso/chocolate combination, this one will probably be the right choice.



ERIC D. SCHMIEDL—THE TECH

Dishes are prepared and ready to serve at Craigie on Main on May 11.

However, the meal didn't end there. A few more light snacks were brought to our table including tea-infused panna cotta and ancho chile and cardamom-spiced Valrhona chocolate soup to wrap up a restaurant experience which was spot-on.

If you're looking for a place that's willing to invent crazy concoctions with an unknown result, then Craigie On Main isn't

that place. Craigie does, on the other hand, deliver solid classics using the "best of the market this morning," to quote the menu itself. The creativity of the chef is not observed through his wild ideas but rather through his ability to use what is local and fresh and come up with a delicious menu that very day which will leave any party satiated and satisfied every time. Chef Tony Maws doesn't try to impress; he just does.

Craigie is the perfect setting to celebrate graduation or your thesis defense, but if you're looking for a quality and tasty meal at a lower price, try stopping by on Sunday nights after 9 p.m. for the Chef's Whim. A four-course meal during this weekly event costs only \$40, and the six-course meal is \$55. As usual, vegetarian options are available.

OLIVER WYMAN



Congratulations and welcome to the following exceptional individuals

Wen Feng **Manvi Goel** **Evan Hefner Monica Hu** Yueyang Alice Li

Katherine Lin Thomas Price

They will get there faster because they are starting at Oliver Wyman

Chem grad student Yu-Pu shares a capella remakes with growing YouTube fanbase

"If anyone asks us what we're doing," said Yu-Pu Wang, a first year graduate student studying chemistry here at MIT, "just tell them the

The clicking of my heels was temporarily interrupted by Yu-Pu's instruction before we continued to follow his lead, as he

took us through what felt like all cor-He paused for a moment to

After a few seconds' delibera-

the underground tunnel connecting building 26 and the Stata center, which I had suggested for the scene only minutes before.

ed for his PhD work.

and I — thought.

He looked both ways for passing

Surely, this was no typical way

tion, Yu-Pu marched

to the center of the

makeshift-dance floor:

a leveled-off section of

that most graduate students spent

their free-time, we — my friend Leah

MIT chemistry graduate student Yu-Pu Wang dances in front of a

bright yellow sports car parked alongside a street in Cambridge to

recreate the "Shagging Wagon" dance scene appearing in Lady Gaga's

janitors before firmly setting down

his tripod, and gave us the nod of ap-

It was the stark of night — nearly

"If anyone asks ... just tell them

As the tenth installment of his

growing series of videos indepen-

dently recorded and posted on You-

Tube, we had been filming a music

video for his latest recording of Lady

11 p.m. — yet we worried that our

filming might attract the attention of

an unsuspecting onlooker.

about our music," he said

filming of 'Telephone'

8640 views

Bad

(Ladv Gaga)

Vocals:

Cast:

Yu-Pu Wang G

Yu-Pu Wang G

Nora O. Hickey '12

Maryam A . Yoon '12

Making it to You-Tube: the

proval to set down our belongings.

music video for "Telephone."

readjust the shoulder-length, plat-

inum-blonde wig which would in-

evitably slip off the top of his thickly-

haired head yet again throughout

The wig and denim skirt, ac-

quired only hours before from Cam-

bridge's legendary Garment District,

were to help viewers distinguish

between when he played Lady Gaga

and Beyoncé in the music video, he

to be done with filming the shot by

midnight so he could go back to lab

and check up on his latest chemical

reaction: a reaction that was part of a

2259 views

You Belong

With Me

(4 Months ago)

Vocals:

Cast:

Yu-Pu Wang G

Yu-Pu Wang G

5523 views

Party In

The ÚSA

(Miley Cyrus)

Vocals:

Cast:

Yu-Pu Wang G

Yu-Pu Wang G

Yu-Pu reminded us that he'd like

explained.

the remainder of the video shoot.

"The lighting here should be good," he approved.

Yu-Pu in the style of a cappella.

scene on Yu-Pu's list

explained.

had originally heard of Yu-Pu from

a friend who attended an Organic

undergraduates who had found the

Yu-Pu YouTube videos online, and

five of his ten music videos so far.

Now in the basement near Stata,

The harsh fluorescent lights con-

trasted with the cold cement walls,

irradiating their chill in a prison

cell-like fashion, like in the original

music video we were hoping to rec-

Lady Gaga dances along the corri-

As we set down our things, Yu-Pu began to study his choreography notes taken the night before: a series of abnormally expressive stick figures dancing across the sheets of his notebook, readjusting their poses, beat-by-beat, alongside instructions like "Clap here!" or "Turn counterclockwise twice."

Grasping for his audio recorder in the pocket of his black athletic track shorts, he fast-forwarded to the next 16 beats of music that we

As we danced and followed his instructions, his blonde wig continued to slip off the top of his head, requiring us to film and re-film this particular scene for nearly two hours.

We needed to re-film just as often due to our uncontrollable laughter, however, which distracted us from performing the appropriate dance moves in-beat. We all agreed we were having fun.

After nearly seven hours of filming to a total of 29 tracks, we were finally finished with his newest video

The video was peppered with locations commonly seen around MIT, including the telephone booth on the first floor of the Student Center, the basement of Stata, the local diner The Friendly Toast, and various locations around McCormick Hall. We felt proud to have mastered so many seemingly complex choreography combinations in such a relatively

short amount of time.

larger-scale organic synthesis need- Gaga's top pop-hit "Telephone." Clocking in at four minutes and

In less than two days, the video twenty-eight seconds, the music had been pre-recorded several nights behad been edited and posted on Yu-Pu's YouTube channel, under his fore, sung and arranged entirely by username "solobahn," to be viewed As his two back-up dancers by a global audience and his steadily-growing fan-base. second year undergraduates who

As his first video to grow so rapidly in popularity in such a short amount Chemistry II review session — we of time, the self-made a capella track were about to help film the next of "Telephone" had already reached over 2000 hits only one week after We were among a group of six premiering on YouTube.

From the perspective of the quirky and strong-minded graduwe volunteered to help film future ate student who liked to perform his own arrangements of American pop videos, acting as backup dancers in songs in his spare time along with his team of equally enthusiastic underwe were filming the scene when graduate back-up dancers, the video — now part of a growing MIT viral legacy — had been dubbed another dors flanking her prison cell, Yu-Pu Yu-Pu success.

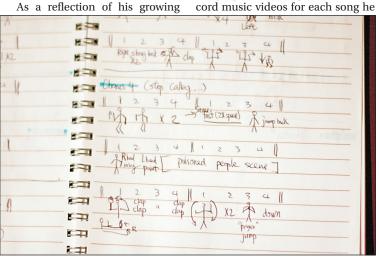
The completed video can be found online at: http://www.youtube.com/user/solobahn

The makings of 'Yu-Tube'

Since the fall of 2009, Yu-Pu Wang has self-recorded, directed, and videotaped a total of ten low-budget a capella videos, costing nothing but the cost of the occasional costume expenditures and the price of batteries for his hand-held camcorder.

His music spans such titles as Miley Cyrus's hit song "Party in the U.S.A" to Taylor Swift's "You Belong With Me" to his most recent recording of "Telephone."

He produces his recordings inbetween working towards a PhD in MIT's Chemistry Department and TA-ing the undergraduate classes 5.12 and 5.13 (Organic Chemistry I



The night before filming the music video for his a capella remake of

Yu-Pu tries on wigs at Cambridge's Garment District to complete his Lady Gaga costume for his latest music video

commonly seen on YouTube....[He]

is a haritone, tenor, and counterten-

His re-arrangement of Lady Ga-

ga's "Bad Romance" is currently his

most widely viewed video, at over

8,000 views; it also happened to be

"I like to pick songs that make me

feel ... happy ... The songs I pick are

all almost always danceable songs,"

he said. "I don't listen to sad songs

or anything like that. All my favorite

use of special effects throughout his

videos make it apparent that he's out

to grab his viewer's attention.

The bright colors and frequent

"That's just my personal style," he

Yu-Pu is often found wearing

bright-turquoise rimmed glasses, a

florescent yellow watch, and sport-

ing three pony-tails in his hair at a

time. "I like colorful things, not just

in my videos, but even in the way I

afraid of being different ... that's one

of the reasons I like Lady Gaga so

first time, however, some people are

less receptive to the growing meme.

to his videos has been they really

don't get it," said Nora O. Hickey, a

rising MIT junior and one of his

under-appreciated artist," she said.

"I like to be different. I'm not

When viewing his videos for the

"For most people, their reaction

his first music video to incorporate

back-up dancers, he explained.

songs are happy."

dress," he said.

backup dancers.

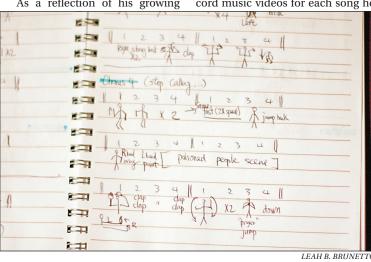
"Yu-Pu is a mi

or, but never a bass," he writes.

YouTube presence, his videos have does, instead of the old-school fivegenerated over 25,000 views since box-type one-man a cappella videos he created his personal YouTube channel on Feburary 14, 2009.

In the profile section of his You-Tube channel, he describes himself as "vu-pu (officially not capitalized), [is] a one-man a cappella band who only does top 40 hits."

"vu-pu has backup dancers to re-



Lady Gaga's "Telephone," Yu-Pu prepares detailed notes describing the beat-by-beat choreography needed for each scene. Here he uses various poses of stick figures to represent the contrasting dance moves, making note of key lyrics and memorable scenes as they are to occur

not know me without taking 5.12 or one knows, so I started listening to 5.13." he said. "But if I do music ... well, everybody listens to music." He recalled enjoying music as

far back as elementary and middle school, when music classes were part of the required curriculum, unlike here at MIT.

"People don't need to know the theory behind music to enjoy music. This makes it different from being a

But that is not to say that he never incorporates his science into his

Demonstrating his clear passion for chemistry, he even incorporated a drawing of an organic reaction, an electrophilic aromatic substitution. into one of his videos, "Tik Tok," at the fifty-three second mark.

According to Yu-Pu, making these increasingly popular music videos is also one of his favorite ways to balance the stresses of graduate work and relax outside of lab.

"Sometimes I just want to relax from lab work. I think that's better for my health," he said.

Whether or not his fellow lab members follow him on YouTube. however, remains a mystery to him.

"A few students in my recitation know about my music, but I'm actually not sure about my lab mem-

Fusion of Taiwanese and American pop culture

Before he began singing American pop songs as a graduate student, Yu-Pu said that his focus was primarily on the pop he listened to in his home-country, Taiwan—even

roughly four years ago in order to gree in chemistry at Rice University,

side of the world — himself.

He immigrated to the U.S. complete his undergraduate de-nervous. Everything is so new to her

he ever posted on YouTube, "Party

in the USA," remains his all-time favorite, largely because he can relate to the content of the song, he said. He said that he can especially relate when Miley Cyrus sings about

main happy, having transitioned

The first American pop video that

pop music from the states.'

even after entering a new culture."

Making music videos is a way for him to hold onto his bright and cheerful personality, he said

According to Yu-Pu, making these music videos also gives him insight to American culture, otherwise foreign to him.

"If you want to know the culture of the states, probably you should the anxiety of relocating to the other listen to their music," he said. side of the country yet can still re-

the music is the most time-intensive portion of the process, taking around three nights for two to three hours each. Recording music takes a relatively shorter time, a night or two of two to three hours each, while mixing music often takes a whole morning, from around 9 a.m. to around one in the afternoon, he said.

"I tend to do mixing on Saturday or Sunday, when I have more time, Yu-Pu said. "For the dancing, I don't



In preparation for filming the scene in which Lady Gaga prepares a sandwich, Yu-Pu intently studies his **notes** describing the choreography for the accompanying dance sequence.

to entirely new culture — the other

"The lyrics, if you listen to them, are about how Miley goes to LA, how she goes to Hollywood, and gets very

completely imaginary, unless you're really prepare much. I just watch writing a song for a science fiction "In most cases, music at least

the world around you. When people — she's from Nashville — yet she is sing, they sing about personal life or the world or a special place or something like that," he said. Although he says he would love to arrange and perform his own original music, Yu-Pu said that he

currently does not feel confident enough in either his native language, Chinese, or his new language, English, to write his own lyrics. Making re-arrangements of fa-

partially reflects what goes on in

mous American pops songs, he says, is his current compromise.

Someday, however, he said that he hopes to attempt the challenge of creating his own entirely original musical work.

Preparing a video, behind the

What makes his videos unique, Yu-Pu said, is that he re-arranges the music himself instead of making a basic dance or slide show with lyrics, which is the most common way that music videos are re-made on

"These aren't the videos that use

"I try to make the videos interesting, so that it's not just music boring. The music is not the origirearrange it and do it myself."

for various scenes of the videos until he actually shoots them. "I sometimes like doing it this way because it feels like a scavenger hunt," he said.

music videos several times and write

notes about the moves, which takes

about an hour. I practice very briefly.

doesn't even have locations in mind

Sometimes, he said that he

which takes about another hour."

As his finals steps, editing videos takes usually around three or four hours, and uploading the video to YouTube takes around half an hour,

Search for a band name

Yu-Pu is currently unsure of what his next musical recording will be. "Maybe another Lady Gaga," he

He said that eventually, he may want to create a website and feature his musical recordings, but for now, he plans on just making more music videos with the help of his back-up

He is, however, on the hunt for a name for his band — a new name to highlight both himself and his danc-

"I don't want to be known alone original music and just kind of make as 'Yu-Pu," he said. "That's only me,

"I want [the new band name] to be nerdy, something to do with to a video or something else that's chemistry...something that you would have to had taken 5.12 or 5.13 nal music; it's the same song, but I to understand" he said. "Currently, I'd be happy to take suggestions."



in Chinatown; they only have Eng- Without his wig, Yu-Pu also plays the role of Beyonce in his YouTube video. Here he poses on the bench flanking the portrait of Katherine McCormick in McCormick Hall.

A history of Yu-Pu's YouTube hits

Yu-Pu Wang, a first year MIT graduate student in chemistry, debuted his first a capella remake of a Top 40 American pop song early last winter. Since creating his YouTube channel under the username soloban" in February of 2009. Yu-Pu's videos (including two acoustic quitar solos preceding his pop videos and not included below) have received over 25,000 hits. The total number of hits presented for each music video was collected at noon, June 2. With the addition of his latest video "Telephone," here we outline the history of his YouTube development.

715 views

Mv Life

Would Suck

Without You

1554 views

Down Romance







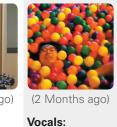




Yu-Pu Wang G

846 views

JumpThen



Yu-Pu Wang G

Yu-Pu Wang G

Leah B. Brunetto '12

Maryam A. Yoon '12

Cast:

Tiffany K Cheng '12 Cast:

1254 views

I Gotta

Feeling

(Black Eyed Peas)



Yu-Pu Wang G

Yu-Pu Wang G



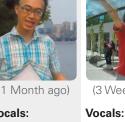
Yu-Pu Wang G

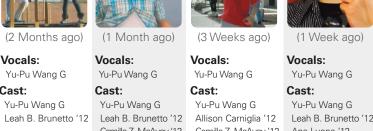
Yu-Pu Wang G

Cast:

606 views

Hot N Cold

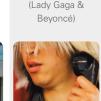




596 views

TikTok

(Ke\$ha)



Vocals: Yu-Pu Wang G

Yu-Pu Wang G Camille Z. McAvoy '12 Camille Z. McAvoy '12 Ana Lyons '12 Nora O. Hickey '12 Nora O. Hickey '12





Hickey was among the group of undergrads who first discovered Yu-Pu through his TA appointment and 2125 views then stumbled across his YouTube videos and wanted to help with the

filming directly. "Any 24 year old dude that posts videos of himself singing Miley Cyrus on YouTube, is worth getting to know," she said. "He's all intense when filming his videos."

"He's not afraid to Yu-Pu it up."

Multi-faceted motivation

Motivating the hours of preparation, performance, and video editing that it takes to fuel this less-thancommon past-time, Yu-Pu said that videos stemmed from a life-long passion for music and a desire to embrace American pop music that is happy and fun.

"Since I was very young, I knew I wanted to be some kind of musician, even if I couldn't be a scientist," he

"I knew that if I ever wanted to be famous, and if I just study chemi-

Making use of the iconic telephone booth found on the first floor of the Student Center, Yu-Pu records shots for the opening and closing scenes of his YouTube video "Telephone." As of noon last Wednesday, the video had received over 2000 views.

in Taiwan frequently, but that he has become more engaged in American culture the longer he stays here. It wasn't until grad school that he started listening to American pop

music, he said. "Back in Taiwan, I listened to a lot of pop singers. They had mostly the same quality. Their music was sort of cute, kind of like it'd make

you want to dance," said Yu-Pu.

"I really liked [Taiwanese pop] in middle school, and I didn't listen to much American music in college. In college, I mostly still listened to Chi-

ate dorm Ashdown (now NW35). "I love to sing karaoke, but none

which he completed in only three still able to think that it's not really a a music video out of it, which is what and I want it to include my other It's like a party."

Regardless of being immersed in an entirely new culture, "I still have

years. He said he still visits his family yery hig deal. She's like 'It will be OK most people do" he said "It's exactly like my situation," he

a personality that is pretty strong,"

Among his favorite Taiwanese bands was the all-girls group "S.H.E.." he said

The main reason he made the transition from Chinese to American pop, he said, is because of the Karaoke night offered every Thursday at the "Thirsty Ear," a bar in the gradu-

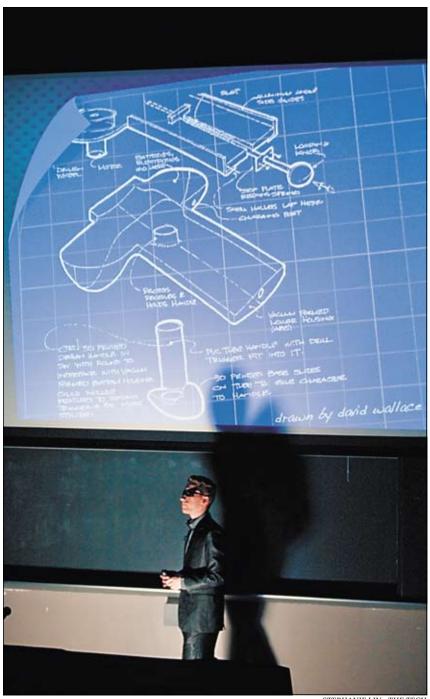
of the songs are Chinese. It's not like lish songs," he said. "I wanted to be

16 THE TECH FRIDAY, JUNE 4, 2010

MIT Toy Product Design PLAYSENtations!

STEPHANIE LIN—THE TECH

The sixth annual MIT Toy Product Design Playsentation was held in 10-250 on May 11. Instructor Barry M. Kudrowitz, a graduate student in Mechanical Engineering, taught 2.00b for the sixth and final time this past semester.



Remus Corp. Operative Jeremy V. Rossmann '13 debriefs the audience about the Flyby, a powerful new weapon currently in the hands of dangerous gangsters, during the 2.00b Toy Playsentation in 10-250 on May 11. The Flyby was one of fifteen toys presented at the Playsentation.



Micah R. Eckhardt G bursts forth in verses praising the Bobbly Bots for their many desirable features, such as cuddliness, interchangeable joints, and motorized bases during the Toy Playsentations in 10-250 on May 11. The toys were designed around the theme of the outdoors.



STEPHANIE LIN—THE TECH

Frubble (Anne G. Warren '13) dances out of the grip of the Frubblebusters in the background to the theme song of Ghostbusters during the 2.00b Toy Playsentations in 10-250 on May 11. Students collaborated with Hasbro, the MIT Museum, and the Boston Children's Museum to design toys such as Frubble, a bubble-making frisbee.



STEPHANIE LIN—THE TECH

Nathan M. Robert '13 stabs Eric A. Del Castillo '13 in the chest with their toy set, the Legend of the Sword, during the Toy Playsentations in 10-250 on May 11. The Legend of the Sword contains two Nerf swords and two vests that have three pressure-triggered targets.

Physicists say weapon failed in missile tests

By William J. Broad and David E. Sanger THE NEW YORK TIMES

President Barack Obama's plans for reducing America's nuclear arsenal and defeating Iran's missiles rely heavily on a new generation of anti-missile defenses, which last year he called "proven and effec-

His confidence in the heart of the system, a rocket-powered interceptor known as the SM-3, was particularly notable because as a senator and presidential candidate

A new analysis published by critics at MIT and Cornell casts doubt on the reliability of the new weapon.

he had previously criticized antimissile arms. But now, a new analysis being published by two antimissile critics, at MIT and Cornell, casts doubt on the reliability of the new weapon.

Obama's announcement of his new anti-missile plan in September was based on the Pentagon's assessment that the SM-3, or Standard Missile 3, had intercepted 84 percent of incoming targets in tests. But a re-examination of results from 10 of those apparently successful tests by Theodore A. Postol '67 and George N. Lewis, published last month, finds only one or two successful intercepts — for a success rate of 10 to 20 percent.

Most of the approaching warheads, they say, would have been knocked off course but not destroyed. While that might work against a conventionally armed missile, it suggests that a nuclear warhead might still detonate. At issue is whether the SM-3 needs to strike and destroy the warhead of a missile - as the Pentagon says on its website.

"The system is highly fragile and brittle and will intercept warheads only by accident, if ever," said Postol, a former Pentagon science adviser who forcefully criticized the performance of the Patriot antimissile system in the 1991 Persian

In interviews and a statement, the Pentagon's Missile Defense Agency strongly defended the SM-3's testing record, and said that the analysis by Postol, an MIT professor of science technology and national security policy, and Lewis, a Cornell physicist, was fundamentally mistaken.

"The allegation is wrong," Richard Lehner, an agency spokesman, said Wednesday. He said the SM-3 is "attaining test scores that many other Defense Department programs aspire to attain."

Even so, the Pentagon later admitted that 4 of the 10 analyzed flight tests carried no mock warheads at all.

The White House declined to comment on the critique of the SM-3 and referred questions to the

The political implications of the critique are potentially large. Democrats, traditional critics of missile defense, have been largely silent about Obama's enthusiasm for this new generation, which for the moment is aimed only at shorter- and mid-range missiles, rather than ones that fly between continents.

During the campaign, Obama repeatedly criticized what he called President George W. Bush's haste to deploy unproven anti-missile arms. He vowed that as president, he would assure that any defensive

shield would meet rigorous standards of testing and effectiveness.

Since last fall. Obama's antimissile goals have expanded to include not only countering Iranian missiles, but creating a rationale for deep cuts in the nation's nuclear arsenal and ultimately for prompting foes to abandon their missile

The deployment of the SM-3 is also seen as essential to convincing Israel that the United States has an effective technology to contain Iran, even if the Iranians obtain a nuclear weapon.

The dispute between the academics and the Pentagon centers on whether it is enough for a speeding interceptor to hit the body of a spent rocket moving through outer space or whether it must hit the attached warhead. Postol says the SM-3 interceptor must shatter the warhead directly, and public statements of the Pentagon agency seem to suggest that it agrees.

The interceptors," the agency website says in its basic explanation

During the campaign, Obama vowed that he would assure that any defensive shield would meet rigorous standards of testing.

of anti-missile goals, "ram the warhead at a very high closing speed, destroying the target."

Skeptics generally hold that the anti-missile job is so daunting what the Pentagon calls hitting a bullet with a bullet — that managers and contractors easily fall prey to exaggerating test results.

But technologists call it increasingly doable. Compared to the Bush administration's land-based system, the SM-3 is fairly small, quickly deployable on ships and has a better reputation.

The interceptor holds what the Pentagon calls an exo-atmospheric kill vehicle. In space, it peers through a telescope to guide itself toward the target, sensing telltale heat emanations and using a computer brain to fire thruster jets. The kill vehicle slams into the target and destroys it by force of impact.

Postol's critics see him as a pessimist blind to anti-missile progress, and his defenders view him as a seer of technical oversight.

During the 1991 Gulf war, the Army put the success rate of the Patriot at over 80 percent in Saudi Arabia and 50 percent in Israel. But Postol found that brilliant displays of anti-missile fire and thunder hid repeated failures of the interceptors to knock out speeding warheads.

The SM-3 analysis of Postol and Lewis, "A Flawed and Dangerous U.S. Missile Defense Plan," appears in the May issue of Arms Control Today, a publication of the Arms Control Association, a private group in Washington.

The study examined video images that the SM-3 kill vehicle took a split second before striking the target and that the Missile Defense Agency subsequently made public. The analvsis looked at 10 tests between 2002 and 2009 — all of which the agency hailed as successful intercepts.

But the scientists found that the kill vehicle hit the warhead only once or twice. The rest of the time, the interceptor struck the rocket body — a much larger target.

In combat, the scientists added, "the warhead would have not been destroyed, but would have continued toward the target."

In an interview, Postol said the anti-missile blow might cause a warhead to fall short or give it an added nudge, with the exact site of the weapon's impact uncertain.

"It matters if it's Wall Street or Brooklyn," he said, "but we won't know in advance."

The Pentagon's rebuttal included a written one vetted by Lt. Gen. Patrick J. O'Reilly, director of the Missile Defense Agency, as well the office of the secretary of defense. It called the analysis "flawed, inaccurate and misleading" and said the alleged SM-3 failures were all, in fact, successes that "did exactly what was expected" as the kill vehicles hit "within inches of the expected impact point."

But it offered little discussion of whether striking the rocket body in flight tests was sufficient grounds to claim overall success — a seemingly important point given that much of the agency's public testimony centers on the necessity of hitting warheads to ensure their destruction.

In a series of e-mail messages,

Postol found that the kill vehicle hit the warhead only once or twice. The rest of the time, it struck the body.

Lehner of the Missile Defense Agency offered more information. On Wednesday, he said the rocket's violent breakup also demolished the warhead. Asked if the agency had evidence, he replied Thursday that readings from test sensors "prove conclusively" that mock warheads "were destroyed and were no longer a threat."

Lehner added, however, that target missiles in four test flights carried no mock warheads, but rather "a nosecone with a weight up front for ballast." The 4 flights with no warheads - which Postol and Lewis included in their analysis of 10 interceptions by the SM-3 — included 3 early ones and a flight last July, the most recent in their analysis.

Informed of the Pentagon's response, Postol said he had no idea about the lack of warheads. He also questioned whether the destroyed warheads represented military designs or frail impostors. Real nuclear warheads streaking through the void of space are extremely rugged objects, designed to withstand the fiery heat of atmospheric re-entry as well as intense buffeting and

"A mock warhead may be extremely fragile compared to a real one," Postol said.

Lehner disagreed. On Friday, he called the fragility claim "absolutely

Rep. John F. Tierney, D-Mass., chairman of the House Oversight and Government Reform national security subcommittee, said in a statement that the SM-3 reanalysis raised serious questions.

"Congress will need to look into them further," he said. "The American people deserve to know about the system's actual capabilities and have a right to expect that their tax dollars are being spent effectively."

C-Crete Technologies wins \$100K

New concrete means lower carbon footprint

The winner of this year's annual MIT \$100K Entrepreneurship Competition was C-Crete Technologies, a team of MIT graduate students and collaborators who nano-engineered a new formula of concrete that would both improve material stability and decrease carbon diox-

ide emissions and cost.

Along with winning the one hundred thousand dollar cash grand prize at the final awards ceremony held May 12 in Kresge Auditorium, C-Crete Technology also won the Elevator Pitch Contest segment of the \$100K competition last November and was a finalist in MIT's clean energy prize, as the \$100K Energy

"We were happy when we heard efforts including plan writing, con- award at the awards ceremony.

ducting field stud[ies], consulting with many industry experts, etc, finally paid off," said team leader Rouzbeh Shahsavari, a graduate student in Civil and Environmental Engineering.

'Our next step would be to build a prototype, which is scalable and can be used by the cement and concrete industry on a large scale," he

Shahsavari also said that the team of students worked closely with the help of their advisors, Prof. Franz-Josef Ulm and Prof. Rolland J. Pellenq, for which their guidance throughout the project they are

Aukera Therapeutics, the life sciences track finalist of the competition, won the \$10.000 voter's choice

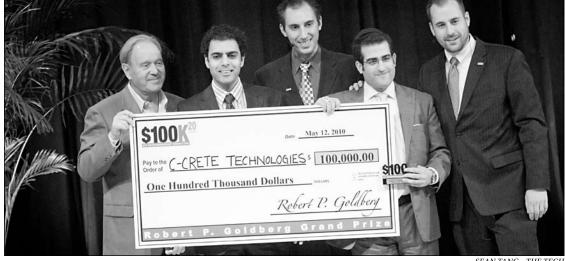
Couchange.org won this year's new TWITCH Contests, gaining the most "retweets" online via Twitter and winning a \$5,000 cash

As part of an unexpected event, the MIT \$100K TWITCH Contest Winners also received a \$19,000 donation from keynote speaker of the night's ceremonies, Reebok Founder Paul Fireman.

Adding to the night's festivities, \$100K organizers also presented the crowd-pleasing YouTube video entitled "A Day in the Life, Year 2030 via MIT \$100K," which can be found at http://www.youtube.com/ watch?v=AcePtVm2SMA.

To learn more on the finalists and competition details, see http:// www.mit100k.org/

-Ana Lyons



C-Crete, winners of the 100K MIT Entrepreneurship Competition, receives a check to help start their business in making nano-engineered concrete. The 100K competition accepts entries in five different "tracks": energy, development, life sciences, mobile, products and services and web/IT. The winners were announced in Kresge on May 12. C-Crete defeated five other finalist teams and claims that their product will severely reduce carbon dioxide emissions, saving billions of dollars on sequestering carbon while providing a stronger alternative to current forms of concrete.

E-MAIL OF THE WEEK

In an email circulated to Next House, Amanda Mok '11 valiantly sought her missing "macho man" *:

'so i'm about head for the airport when i discover that my travelbuddy is nowhere to be found! he's about 5 inches tall. 5 inches wide (very much like a ball of fur), tan-ish fur with a white belly



a friend from high school gave him to me as a graduation present, and knuffles has been around the world with me. if you've seen him anywhere around next house (or at stuff-fest?!?!), could you please let me know? he's of great sentimental value, and you would be my hero forever if you found him."

E-mail of the Week quotations are used with permission.

- "former spy. looks cute to get close to people, especially the women."



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'Jed is Awesome' declare students

Wartman will have left mark on MIT as he departs this month



JOHN A. HAWKINSON—THE TEC

Jed W. Wartman thanks students and says goodbye during the 2010 Student Leader Awards Ceremony on May 14 in Morss Hall. Jed and his wife, Brynn Hale Wartman, are relocating to Colby College in central Maine.

Wartman, from Page 1

New England liberal arts school. Colby presents this opportunity."

As an administrator in the Student Activities Office (SAO), Wartman has overseen several programs at MIT that work to develop leadership and inclusion.

"We have seen a tremendous growth in engagement of students with our office and partnership with our office. It's probably one of the things I'm most proud of in the last three years," he said. "We've really become identifiable by the students as a resource and a partner in supporting their ideas and helping them pursue whatever it is they're trying to pursue."

Wartman said that getting to know hundreds of students was one of his greatest achievements at MIT. He hopes events that foster leadership development, diversity, and inclusion will be advanced after he leaves MIT.

"LeaderShape, Community Catalyst Leadership Program, the Emerging Leaders Conference, and mc² [MIT Multicultural Conference] are all massively important programs because they invite and encourage students to explore themselves, learn about others, and reflect on what kind of a world they want to live in and what their role is in creating this world," he

According to Wartman, "these programs allow me to connect with students in a deeper way. By the end of the programs I am inspired, motivated, and comforted by the fact that our students are the next generation of leaders."

Appreciative students prepared a video tribute to Wartman that they showed at the Student Leader Awards on May 14, put together by Ryan W. Jackson '10.

In the video, 26 students expressed glowingly positive sentiments about Jed, praising his positive attitude and the fact that his door was always open. They also indicated that they would miss him, and above all, repeated many times, that he was "awesome."

The students, all friends of Wartman, also answered questions in the video like "What's Jed's color?" (orange, because he's bright; salmon; pink; red, because it rhymes with Jed), and "What's Jed's vegetable?" (tomato, for happiness; carrot, for bright colors).

Spangle said he will miss Wartman's mentorship: "Jed is an advocate, a listening ear, and a friend to all who have had the chance to interact with him, and it is to his credit that the Student Activities Office has become a place of such positive engagement among students and staff."

Donna M. Denoncourt, Associate Dean of Residential Life, has

similar sentiments: "I was lucky enough to work with Jed on Leader-Shape, mc², as well as with student concerns and student successes ... I saw in him a leader that is ethical, responsible, caring and committed."

Another one of Wartman's undertakings at MIT was the Boston Marathon. "I stood on the sidelines and watched for about eight years. I always knew I wanted to do it, but I wasn't sure I would be as disciplined at it, as committed to it as I needed to be," he said.

This year was Wartman's second Boston marathon, and he's already making plans for his third next spring. He runs as a cancer research fundraiser, which motivates him through the grueling 26.2 miles: "When I had the opportunity to do it for a cause, I realized that was the right formula because that would hold me more accountable to the commitment."

The spirit of the race itself is another source of motivation. "Boston's not a city that unconditionally cheers. Boston's a city that honks horns, so for 26 miles to have these people cheering, they're not cheering for you to win, but they're just cheering for the human spirit," Wartman said.

He is grateful not only to the Boston community, but to members of the MIT community as well: "I love that I see MIT students out there, too. Every year I've gotten some wonderful cheers of support and encouragement from MIT students."

Professionally, Wartman says the departure to Colby is the right move for him, but it is still a difficult change personally. In a position where students are at the center of his work, Wartman is grateful for the people he has connected with: "MIT students don't just accept 'No, we can't do that.' The MIT community is trained to figure out how we can do that and so I've had to embrace that as well. I've been challenged and learned to start from a place of yes in terms of ideas that come in the door and make it happen."

Wartman and his wife Brynn are purchasing a house in Maine, and will be making the transition from renting apartment-dwellers to homeowners.

Wartman said that the search for a replacement would begin soon, hopefully to be filled by September, and that in the interim, Philip J. Walsh, Director of the Campus Activites Complex, would oversee SAO.

Wartman advises his successor, who has not been chosen yet, to encourage communication and stay student-centered. According to Wartman, MIT is "truly a place where you don't know what question or idea is going to come through the door, and that's exciting."

HDAG report out!

Campus Dining will issue full report in 'next few weeks'

Old Plan

a-la-carte dinner on five weekdays (every day in Baker)

Required for students in dining hall dorms

\$300 per year ⇒ 50% off entrées

10

Ten meals per week: five breakfasts, five dinners

Required for juniors and seniors in dining hall dorms

\$2900 per year (projected) ≈ \$10.36 per meal

12

Twelve meals per week: six breakfasts, six dinners Required for sophomores in dining hall dorms

\$3400 per year (projected) ≈ \$10.11 per meal

14
meal plan

Fourteen meals per week: seven breakfasts, seven dinners Required for freshmen in dining hall dorms

\$3800 per year (projected) ≈ \$9.69 per meal

- \bullet The dining hall dorms are Baker, McCormick, Next House, and Simmons
- Students who do not live in dining hall dorms can opt-in to a meal plan
- Any student can upgrade to a more extensive plan than is required

Dining, from Page 1

on-the-go lifestyle, and it has dining open at Next House seven days a week, which is nice because I don't enjoy having to trek to Baker on the weekends."

Celeste I. Faaiuaso '12 chose not to thoroughly read the recommendation because, at the time, "it

When asked if she plans to opt-in to the meal plan her senior year, Faaiuaso said, "It's up to my parents, because they're the ones paying."

wasn't a priority for me to look at it," she said. The recommendation was released on the Wednesday of finals week.

In his email to MIT undergrads revealing the final recommendation, Dean for Student Life Chris Colombo recognized the timing: "once the end-of-the-semester intensity is behind us and you have time to breathe again, I encourage you to review the full HDAG recom-

mendation."

According to Tom Gearty, spokesman for Colombo, "We understand that it's not an ideal time to release important news to the community, but at the same time, ... a review in discussion of dining has been going on now for more than two years at MIT, and we did not want to delay the information once we had it." Gearty also said, "we tried to err on the side of getting information out" while students were still on campus.

As a New House resident, Faaiuaso is not required to participate in House Dining. When asked if she plans to opt-in to the meal plan when it becomes effective in her senior year, Faaiuaso said, "It's up to my parents because they're the ones paying."

Lunch is not included in the new plan, and it does not cover Independent Activities Period in Ianuary. According to the final recommendation, "attendance during IAP is not required for nearly all MIT students; lunch in the residences is not a convenient or feasible option for MIT students." The HDAG recommends further discussion on these aspects of dining: "we strongly urge the Dean for Student Life to use the year between now and the implementation of the meal plan to study the balance between meal plan costs, the period covered by

the meal plan, and the board allowance set by MIT for financial aid."

There are three options within the new dining plan. Freshmen participating in House Dining are required to purchase the 14-meals per week option, which accounts for seven dinners and seven breakfasts. Sophomores may decide between the 14-meals or 12-meals per week plans whereas juniors and seniors have the option to purchase 10, 12, or 14 meals per week. In each meal plan, the number of meals is divided equally between breakfast and dinner.

The projected annual prices for the 10-, 12-, and 14-meals per week plans are \$2,900, \$3,400, and \$3,800 per year, respectively. According to the House Dining Review website, http://studentlife.mit.edu/house-dining-review, these prices "are based on two 15-week semesters and derive from models developed by Campus Dining and a representative from the Office of the Vice President for Finance."

According to Samuel Rodarte Jr. '12, a UA senator for the Phoenix Group, "I do like the aspect that the new plan allows students to eat at any of the four dining halls and the all-you-can-eat aspect, as long as the quality of the food does not decrease and a-la-carte grill and stir fry options remain. Many of my constituents fear that once this new plan is implemented, we will only see trays of food at the dining halls and not the current option to order our own stir-fry or grill items."

HDAG process

Juan commented on the focus on student input during HDAG meetings: "Dean Colombo was absolutely adamant that students spoke up during the meeting. Every time a new idea came up, he would listen to whoever had something to say and then he'd ask, 'How do the students feel about this? Would you use this idea? Would your dorms agree with this?""

Dining forums were held across campus in April, where students could voice their suggestions for the new plan. Gearty attended all these forums, and said, "one of the things that was instructive was that the issues were the same. We were hearing the same range of concerns, ideas, and wishes for House Dining." According to Gearty, this repetition of topics "helped us feel

confident that we understood the student perspective."

The HDAG collected further student input on the House Dining Review Idea Bank. In the coming weeks, Richard Berlin, Director of Campus Dining, and Gearty will draft responses to student suggestions

"Overall, I did feel that the HDAG process was short and speedy, not necessarily the best time-frame to obtain student input."

Gearty said he heard from students that they were not sure if or how their ideas submitted to the Institute-Wide Planning Task Force Idea Bank were regarded. "They never got the sense that the idea was considered. We want to make sure that our Idea Bank isn't a black hole, where ideas go in and just disappear. So, even where we have to disagree with somebody, we want

to make sure you get a response,"

According to Juan, "I definitely believe that students had adequate input into this plan and though it doesn't please everyone, it serves and benefits MIT as a community."

Rodarte, on the other hand, felt that the process could have been less rushed: "Overall, I did feel that the HDAG process was short and speedy, not necessarily the best time-frame to obtain student input. The administrators have been working on this for few years and in a matter of weeks they want develop and receive feedback from the students about entirely new dining plans."

According to the House Dining Review website, "in the coming months, Campus Dining will prepare a request for proposal (RFP) based upon the HDAG recommendation ... This RFP will then be released and a vendor will be selected to operate the new House Dining program when it commences in Fall 2011."

Campus Dining will also work with each of the dining hall dorms to establish their hours of meal service. Renovation and construction to accommodate this new plan will occur next academic year.

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MIT students swarm an "entire room giveaway" in E60, posted to the reuse mailing list. Steven G. Banzaert emailed the list giving away the contents of a room that housed several robotics teams, between the hours of 3–4 p.m. Tuesday. Like all posts to reuse, the items were free for the taking.

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20 THE TECH Friday, June 4, 2010

Anna Tang's trial set for June 22



Anna Tang's trial date is postponed at a hearing in Middlesex Superior Court on May 24. The agreement was reached between Assistant District Attorney Susanne Kontz, Tang's attorney Robert A. George, and Justice Bruce R. Henry.

The trial of Anna Tang, accused of stabbing her ex-boyfriend in 2007, has been postponed once again, until June 22 and 23.

It will now be a bench trial before the Justice Bruce R. Henry, not a jury trial, according to Tang's attorney, Robert A. George. Tang's trial had most recently been scheduled for May 24.

George said the delay "has been necessitated by a critical delay in the prosecution's case," and referred further inquiries to the prosecution, who did not respond in detail.

Tang intends to pursue an insanity defense, George said. She remains under house arrest, and is currently living with her aunt, he said. In August of last year, George told the court that "It is clear to me that Ms. Tang was suffering from mental illness at the time of her

Tang will appear in court for a pre-trial hearing on June 8.

The Middlesex DA press office had no comment on the delays or developments in the case.

Tang is charged with assault with intent to murder; assault

and battery with the intent to cause a serious bodily injury; and home invasion. She is accused of having stabbed Wolfe B. Styke '10 in his Next House dormitory room while he slept, in October

Tang's father, Jianguo "Jay" Tang, relocated to Shanghai, China last summer where he is suffering through the final stages of terminal liver cancer.

–John A. Hawkinson

An earlier version of this article ran on our website on Monday, May 24.

MIT backs IFC finding

Fraternity lied and drove prefrosh to hospital

IFC finding, from Page 1

The Tech previously reported that Bexley housemaster Robert M. Randolph wrote to the bexleyresidents mailing list on Friday, April 9 that a prospective freshman was found unconscious outside McCormick Hall and that "[It] appears she may have gotten the alcohol ... in Bexley.

However, according to T. Ryan Schoen '11, IFC president, the fraternity members fabricated the story that they found the prefrosh outside McCormick. He said that the fraternity members drove the prospective student to the hospital "when they realized the extent of her condition."

It appears that the MIT administration is satisfied with the IFC's investigation and ruling, and that no further investigation of the incident is ongoing.

Kaya Miller, assistant dean of Fraternities, Sororities, and Independent Living Groups and Residential Life Programs, referred all questions about the incident to the IFC and wrote in an e-mail to *The Tech* that she "fully support[s] the Interfraternity Council process of self-governance, including the Judicial Committee process and

Tom Gearty, spokesman for

the Department of Student Life, told The Tech that he believes the DSL is not pursuing further investigation into the matter.

The Tech reported previously that Stuart Schmill '86, dean of admissions, wrote to The Tech in an e-mail that, during CPW, "no events or parties with alcohol are permitted, no alcohol is allowed out in common areas, and no alcohol is to be provided to prefrosh."

"This was communicated to the leadership of the living groups before CPW by the dean of student life, and also communicated to CPW student hosts by the admissions office staff," Schmill wrote.

In response to the recent ruling by the IFC, Schmill wrote in an e-mail that "we haven't done a full debrief," and that he can't yet comment on policies and procedures for next year's CPW and how they might change.

MIT Police Chief John Di Fava said that there is not currently a criminal investigation into the incident.

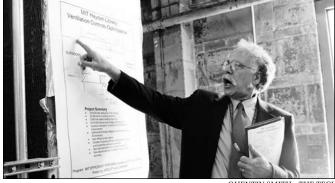
DTD's president, Benjamin T. Bersanti '10, did not immediately return a request for comment.

A copy of the IFC's statement is available online at http://tech.mit. edu/V130/N27/prefrosh/.

Natasha Plotkin contributed reporting to this article.

MIT and NStar to save \$50M in energy

Hope is 34 million kWh in 3 years



Peter L. Cooper, Manager of Sustainability Engineering and Utility Planning at MIT Facilities, speaks at the MIT Efficiency Forward event in Building 14 on May 26. The Efficiency Forward program will aim to cut electricity use on campus by 15% over the next three years.

By Quentin Smith

Last week Wednesday, May 26, MIT announced its "Efficiency Forward" initiative aimed at drastically cutting MIT's energy use and cost over the next three

MIT's goal is to conserve 34 million kilowatt-hours over the next three years. By comparison, MIT's average energy consumption over the past 14 days was 24,950 kilowatts, or 18 million kilowatt-hours per month.

MIT expects the energy savings to translate into a cost savings of approximately \$50 million.

According to Steven M. Lanou, MIT's Deputy Director of Environmental Sustainability, "lighting retrofits are expected to contribute about half the savings, new construction features about 20 percent, and chilled water, HVAC [Heating Ventilation Air Conditioning], fume hood system retrofits contributing the balance."

MIT has repeatedly declined to provide details about how it obtained the \$50 million and 34 million kWh numbers. Components of the savings include \$1 million saved from lighting and ventilation upgrades in buildings W20, 18, and 32, \$2.5 million saved from real-time ventilation control in buildings 16, 18, 56, 68, W35, and NW35, and \$486,000 saved from fume hood flow reductions in building 18.

The effort is a collaboration with NStar, the electricity provider that MIT buys supple tal electricity from.

MIT's own cogeneration plant only produces about 20 megawatts, which is not enough to meet the campus's current energy needs.

Joseph R. Nolan, NStar's Senior Vice President of Customer and Corporate Relations. described the initiative as the "largest energy efficiency project that we have ever embarked on." NStar serves 1.4 million customers in eastern and central Massachusetts.

In addition to expert knowledge, NStar will be contributing about \$1.5 million to the proj-

Asked for a further breakdown of where the calculated 34 million kilowatt-hours will be saved, Lanou said, "At this point we can only provide the broad details ... But as we develop the program each semester, we will be able to provide more details as the analysis on specific projects is carried out."

Berenson paroled in Peru

Former student \bar{h} eld 15 yrs. for alleged terrorism

By Jingyun Fan ASSOCIATE NEWS EDITOR

Lori Helene Berenson, a former MIT student and political activist imprisoned in Peru, was granted parole on Tuesday, May 25, 2010. Berenson, who withdrew from MIT as a sophomore in 1988, has served 15 years out of a 20-year prison sentence for aiding the leftist guerilla group Túpac Amaru Revolutionary Movement, or MRTA (Movimiento Revolucionario Túpac Amaru). She is now 40 years

Berenson's release provoked controversy in a country still traumatized by a conflict that killed some 70,000 people, Reuters said.

According to Reuters on Monday, a Peruvian official has branded Berenson a "public nuisance" and said the government may decide to deport her soon. Since her release, Berenson has been living in Lima and protestors have gathered to demand her removal from the country.

"I don't think Ms. Berenson can hurt society, (but) I certainly think she's a public nuisance, and a political problem," Peruvian Justice Minister Victor Carcia told Reuters, Garcia also said that President Alan Garcia will determine if Berenson is to be allowed to leave Peru

"Berenson had for many years denied any wrongdoing, maintaining she was a political prisoner and not a terrorist," the Associated Press said.

According to Reuters, Berenson's family has said that she was wrongly convicted, and has never taken up

Berenson was a student in the anthropology and archaeology section of the humanities department at MIT when she withdrew. She first became interested in human rights activism during a UROP in anthropology, according to her parents, Mark L. and Rhoda Berenson, both retired college professors in New York, Lori Berenson went to Peru as a freelance journalist for Third World Viewpoint and Modern

In an email on Monday, Mark Berenson told The Tech that he and his wife are currently in Lima. He also said that Lori will not be able to give any interview until she is on US soil.

"It is not yet clear when she is going to be allowed to return," Mark Berenson said.

Mark Berenson told The New York Times, "This is a day I'll cherish for the rest of my life. We've held hope for Lori's release for so many years, and now we know she and Salvador can go on with life outside of prison." Her son Salvador Anespori Apari was born in prison in 2009.

In 1995, Berenson was accused of being a leader of the MRTA and was sentenced by an anonymous military court to life imprisonment. Under pressure from the United States, Berenson was retried by a civilian court in 2001 and sentenced to twenty years in prison, with five years already served.

"The U.S. State Department had pushed hard for the civilian trial, saying Berenson was denied due process by the military tribunal," the AP said last Tuesday.

Her re-trial was originally seen as an effort to improve relations between the U.S. and former Peruvian strongman Alberto Fujimorii, *The* Times reported in 2001. The unfavorable outcome soured relations between the Clinton and Fujimori administrations, according to the AP

MIT Professor of Linguistics and Philosophy Noam Chomsky, who serves on the advisory board of the Committee to Free Lori Berenson, issued a statement on 1999 in support of Berenson. In his statement, Chomsky wrote, "With immense courage and self-sacrifice, [Berenson] is not only standing up with honor and dignity for her own rights, but for the great number of people of Peru who are suffering severe repression and extreme economic hardship as a consequence of policies that sacrifice much of the population to the greed and power of small sectors of privilege — in Peru itself, and in the deeply unjust and coercive global system that has been constructed to yield such outcomes." Chomsky also called Berenson a prisoner of con-

Berenson spent many years in a remote prison in the mountain region of Cajamarca, but was moved to Lima in 2009 for medical care, including for her pregnancy, the



Lori Berenson stands in a courtroom at Santa Monica Prison in Lima, Peru, on May 25. Berenson, serving a 20-year sentence in Peru for aiding leftist guerillas, was granted parole by a judge after some 15 years in prison.

AP said.

Berenson met the father of her son, Aníbal Apari, in prison and married him in 2003. Apari had been serving time for involvement with the MRTA and was paroled in 2003. Reuters said that Apari is now a lawyer and represented Berenson at her parole hearing.

At the time of Berenson's arrest. she was married to another MRTA member, Nestor Cerpa. In 1996, it was Cerpa that led a group of MRTA rebels who took hundreds of diplomats and officials hostage at the Japanese ambassador's house, Reuters said.

Berenson sat quietly in the Lima prison courtroom as Judge Jessica León read the ruling on May 25, and then briefly hugged Apari, The Times

Berenson and Apari are now legally separated but remain friends, according to the AP. Berenson plans on raising Salvador as a single mother. Berenson's sentence officially ends in November 2015, and she may not be able to leave Peru until that date.

An earlier version of this article ran on our website on Wednesday, May 26. This article is a summary from wire stories.

MIT announces yield %

Nearly the same as last year

By Natasha Plotkin

Around 64 percent of prospective freshmen chose to accept their offers of admissions to MIT, roughly the same fraction as did last year, according to Dean of Admissions Stuart Schmill '86.

This percentage, known as the "yield rate" in college admissions lingo, also stayed roughly constant at many of the schools with which MIT competes for freshmen: Harvard's remained at 76 percent, Yale's dropped to 67 from 69 percent last year, and Stanford's rose to 73 percent from 71 percent last year.

In total, 1,070 students will enroll, which is the same number as last year and the number the admissions office had set as its target. In terms of race, gender, and schooling, the enrolled class is also very similar to the class of 2013.

In all, MIT admitted 1,676 students, including 65 students off the wait list. The overall admission rate was 10.1 percent, which includes 590 early action admits.

Sixteen percent of enrolled students are part of the first generation in their families to attend college. Forty-four percent are valedictorians, and 93 percent graduated in the top 5 percent of their high school class.

MIT continued to partner with QuestBridge, a non-profit that recruits low-income students to apply to top-tier schools, for the second year. This year, MIT accepted 87 of 903 students to apply through QuestBridge, and 49 of them have enrolled. Lastyear, only 800 students applied through QuestBridge.

While the admissions office has not yet conducted a survey of the academic interests in the enrolled class, Schmill noted an increase in the number of applicants interested in studying subjects related to energy and the environment. "This is a trend we've seen in the last few years, my presumption is that this is an area of increased interest on the part of young people generally, and specifically the MIT Energy Initiative has attracted students as well," Schmill wrote in an e-mail.

MIT Class of 2014

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40%	Caucasian	65%	Public school
27 %	Asian	17 %	Private school
13%	Hispanic	8 %	Religious school
9%	African American	7%	Foreign school
1%	Native American	1%	Home school

55% Male, 45% Female



Kayakers paddle through the Charles River against the smokeobscured Boston skyline on May 31. Smoke from forest fires in Quebec drifted through Boston, making breathing uncomfortable outdoors

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22 THE TECH FRIDAY, JUNE 4, 2010

Operators watch over reactor every second of every day

Switch to more secure fuel is still several years away, but staff are confident of safety

Reactor, from Page 1

no longer in use, the setup remains. In two rooms, stretchers are placed to position patient's heads in line with the neutron beams. To allow the physician to observe the experiment, there is a thick slab of lead doped glass separating the experimenter and the procedure room.

Now, scientists at the reactor are investigating neutron doping of silicon. Blocks of silicon are pushed through the reactor body, bombarding them with neutrons. This creates lower resistivity in the silicon, making it better suited for uses in electronic devices.

Reactor Trainees

Course XXII is the most common major for students at the reactor, though it is not exclusive. Baum is Course III, saying he decided to "split the difference" when he was undecided about majors and declared Course III while working at the reactor. Other students have been Courses IV, IX, X, XVI, and XVIII

All four of the current reactor trainees are Course XXII. Sarah H. Don '13 first came to be interested in nuclear engineering mostly by coincidence. Don, who is an international student from Australia, had a debate in her ninth grade class about nuclear power. The students in her class split up into different roles, such as politician or a townsperson. "Oh, I'll be the scientist!" Don said. As she started the research for her project, she found that there are no commercial nuclear power plants in Australia.

"In Australia, everyone's really scared of nuclear power," said Don. As she learned more about nuclear power, she began to see it as a valuable energy source, but one that Australia condemns. The anti-nuclear sentiment is so strong that Don says "some of my friend-ships [from home] have changed" since she has begun working at the reactor.

Dominic R. Solis '12 was always interested in the atom bomb, which fed his interest in nuclear engineering at large. For Paramenova, it was a family tradition: "My grandfather was a nuclear engineer and now my dad's a nuclear engineer." Her interest was almost expected.

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321-544-0012

Judy N. Rodriguez '13 came to nuclear engineering less directly. Rodriguez said she "didn't really know about the department until I got to MIT...It just sort of grew on me." Rodriguez passed by a bulletin board in building 24 displaying information about the nuclear engineering department at MIT daily on her way to class. Repeatedly seeing the bulletin board piqued her interest in the department.

But her path to the job at the nuclear reactor was even more roundabout. Rodriguez was attending a talk on Mexican solidarity, where she found herself to be the only undergraduate. After the talk, Rodriguez struck up a conversation with a graduate student who just happened to work at the nuclear reactor. While discussing the reactor, Rodriguez learned that undergraduates could apply to be operators.

Working at the nuclear reactor goes beyond simply an undergraduate commitment. It comes with a high degree of job security, as being a trained operator is extremely attractive to other facilities. This will become more evident as the nuclear industry grows, said Solis. "With the field growing, more plants are going to be built...it's good to have people that are experienced."

Baum, who has gotten a job offer

The anti-nuclear sentiment is so strong that Don says "some of my friendships [from home] have changed" since she began working at the reactor.

from the Nuclear Regulatory Committee, says the experience offered by an operator job is unparalleled. "It's a chance to do technician work. ...you get an actual grasp of how industrial systems work."

Public Concern

Recently, concern has been raised in the press over MIT's use of highly enriched uranium fuel, the same material that is used to produce nuclear bombs. The criticism is rooted in a combination of concerns over security and public relations. The United Sates is attempting to convince other countries to switch to a lower enrichment of uranium in civilian reactors to pre-



EDWARD L

Senior Reactor Operator Agata E. Wisniowska '11 performs a start-up in the reactor's control room. The reactor, opened in 1956 and rebuilt in 1974, is operated in part by undergraduate students.

vent the spread of nuclear reactors. The presence of the highly enriched uranium in the MIT reactor and other civilian reactors is seen as an obstacle in negotiations.

MIT's reactor had been scheduled to undergo a fuel switch by 2014, but that date has been pushed back, primarily because of concerns over loss of performance. "You can't just change the fuel...you need a specific enrichment to reach criticality to run the reactor," Don said, describing how the reactor was designed to work with a specific enrichment of fuel. Some critics of the reactor suggest performance might need to be sacrificed in order to expedite the fuel switch, rather than waiting to find a suitable substitute.

Typically, research reactors do not have enough fuel to produce a nuclear bomb, which often results in relatively lower security. However, there is concern that thefts from multiple reactors could be combined to produce an adequate amount of fuel.

Despite public concern, the staff of the MIT nuclear reactor stands firmly by the safety and security of their facility. In a statement, the reactor's director, David E. Moncton, said, "The reactor's 50-year history of operations without any major incident is testimony to our high regard for safety and security, and the high level of commitment from our staff and students."

"If MIT was attacked, I would want to be inside... [It's the] safest place in Cambridge" Bao H. Truong G, a reactor operator, said of the reactor, expressing a common sentiment among the reactor operators.

According to operators, security extends down to fuel, which they describe as self-protecting. "If people try and steal the elements, they'll die in the process because of radiation," Rodriguez said. Moving the fuel without extensive safety and containment measures would result in fatal dosage.

The operators attribute the con-

cerns about the reactor to public misunderstanding. They say that misinformation permeates discussion about the reactor, ranging from innocuous things at the MIT level — such as the location of the reactor — to much larger concerns about the safety of nuclear engineering.

"The government doesn't understand nuclear engineering... they don't understand that all the safety systems in place prevent [accidents] from happening," said Paramonova, who wants to pursue a career in nuclear political policy.

Because of this apparent level of misinformation about MIT's reactor and nuclear power in general, one of

"The government doesn't understand nuclear engineering ...they don't understand that all the safety systems in place prevent accidents from happening."

the goals of the group that manages the nuclear reactor is to educate the community at large. Public tours are available, with middle and high schools often coming on class trips. "I wish I could educate the world, one step at a time," Don said.

Though they are confident in the reactor's safety, the operators are extremely aware of the responsibility that comes with their position. "It's overwhelming sometimes...obviously it's a big responsibility and I think about that often," Don said, echoing the sentiments of other undergraduates.

"It's the reason we have yearlong training," Rodriguez said. Their

training intends to teach them all the finest details of how the reactor works, so if anything were to go wrong, the operators could be well prepared.

Training Process

In order to keep the reactor running smoothly and safely, the training process for student operators is lengthy and thorough. Initial operator training is a yearlong process marked primarily by memorization. The trainee must learn all the ins and outs of the reactor, from the major to the seemingly mundane. "We know everything about the reactor there is to know," Don said.

The training room has binders upon binders of information that must be committed to memory by trainees. Some of the binders are decades old and include everything from procedures employed when running the reactor to diagrams showing every valve in the reactor. Baum calls this first year of training the "hardest class you're going to have here."

Though everything is memorized in the first year, written directions are always used when operating the reactor. Bookshelves in the control room contain even more binders, documenting all possible procedures. The purpose of this training is to not commit just procedures to memory, but also the reasoning behind them. When the student operators know exactly how the reactor is functioning, they can best adjust to its needs.

After the first year, it gets easier. As operators, a lot of the job is simply waiting. Students work in four hour shifts, divided between time in the control room and working at other locations around the reactor. Often, the job is a waiting game. "You get a chance to be on the clock while doing homework," Baum says.

Student operators often work the night shifts at the reactor. Baum, who often worked overnight shifts on weekends, said the biggest challenge was adjusting sleep to deal with working through the night. "You have to worry about scheduling your sleep here, but MIT students do that anyway."

Students can move beyond operators to become shift supervisors, adding an additional level of responsibility. But at any level, there is redundancy of responsibility — there is never a single person in the reactor in charge of everything. Still, the move from operator to supervisor is a significant jump — "you're the final call," Baum said.

It is not a job that is taken lightly by any of the operators. With all, however, there is a clear dedication to their job and the field at large, even with the challenges they are taking on. "We know what we're getting into", said Paramonova.

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Inside the Reactor

The reactor building is divided into two sections — an external portion where the offices and basic training facilities are kept, and the containment chamber, the domed building that surrounds the reactor itself.

It is strangely eerie inside the containment chamber. From the inside, the building seems larger than it does from the outside. The room is painted mostly in pale blue, like the color on the building's exterior. It is lit artificially and hums constantly with the sound of mechanical activity

Inside the containment chamber, everyone must wear a dosimeter to measure any radiation exposure. Upon leaving, two Geiger counters are used to confirm the readings by the dosimeter. Oper-

ators at the reactor are exposed to very low dosages under normal operating conditions, well under the mandated maximum exposure.

An airlock separates the containment chamber from the rest of the facility. The containment chamber is kept at low pressure so that if any leaks were to occur, air would rush in, not out. To enter the airlock, operators must be approved by a newly installed iris scanner.

Inside the perimeter of the containment chamber there are multiple meters to make sure all levels of radiation and air circulation are appropriate. There are dampers in the ventilation system that will shut off all outward airflow if heightened levels of radiation are detected.

Inside the control room, the hub of operator activity when running the reactor, there is an almost overwhelming number of controls. The walls of the room from nearly floor to ceiling are covered with video monitors, results from various meters, panels of control buttons, and large displays of alarms. Everything about the reactor can be monitored from the control room, and at all times the reactor is running, there is at least one person inside

Safety issues are accounted for in the design: "It [would be] really hard for me to make a mistake that would result in radioactive threats," Sarah H. Don '13 said, because of the redundancy in security.

— Margaret Cunniff

UA Finboard Releases Summer/Fall 2010 Funding Results

Group Active Minds at MIT	Req. Operations	Allocation Operations —	Req. Capital	Allocated Capital	Req. Events	Allocated Events \$600	Req. P&P \$1,700	Allocated P&P \$200	Total Req. \$2,600	Total Alloc. \$800	% Alloc
African Students Association Alpha Phi Omega	_	_	_	_	\$4,932 \$200	\$1,800 \$200	\$338	\$200	\$5,270 \$200	\$2,000 \$200	389
Alternative Spring Break	<u> </u>	_ _	<u> </u>	— \$50	\$195	\$195	-	-	\$275	\$275	1009
MIT American Medical Students' Association American Red Cross Team and Network	\$300 \$1,324	 \$1,324	— \$90	<u> </u>	\$1,225 \$1,460	\$600 \$660	\$60 \$132	\$60 \$132	\$1,585 \$3,006	\$660 \$2,186	739
Anime Club, MIT Asian American Association	— \$200	— \$100	\$2,200 \$100	\$700 \$100	\$740 \$1,530	\$740 \$1,460	\$202 \$200	\$202 \$200	\$3,142 \$2,030	\$1,642 \$1,860	529 929
Asian Baptist Student Koinonia	\$550 \$500	\$220 \$180	— \$220	— —	\$830 \$200	\$580 \$200	\$175 \$125	\$150 \$25	\$1,555 \$1,045	\$950 \$405	-
Asian Christian Fellowship MIT Assassins' Guild	\$380	\$380	\$295	\$120	\$900	\$900	\$230	\$230	\$1,805	\$1,630	909
Association of International Relations and Model United Nations	\$945	_	_	_	\$1,150	\$400	\$390	\$100	\$2,485	\$500	
Association of Puerto Rican Students Association of Taiwanese Students	\$300 —	_	\$365 \$235	\$170 \$160	\$6,335 \$2,240	\$2,000 \$2,010	\$78 \$100	\$78 \$100	\$7,078 \$2,575	\$2,248 \$2,270	325
Asymptones Baptist Student Fellowship		_	\$100	\$50	— \$750	— \$350	— \$50	— \$50	\$100 \$800	\$50 \$400	509
Best Buddies	_	_	_	_ 	\$320	\$330	\$80	\$80	\$400	\$400	1009
MIT Bhangra Biological Engineering - Biomedical Engineering Society	\$3,850 —	\$950 —	\$425 —	\$250 —	- \$1,625	— \$1,350	-	<u> </u>	\$4,275 \$1,970	\$1,200 \$1,520	775
(BE-BMES) Black Students' Union	_	_	_	_	\$2,950	\$2,000	\$180	\$180	\$3,130	\$2,180	709
Black Women's Alliance Brain and Cognitive Sciences Society	_	_	_	_	\$3,075 \$544	\$1,800 \$444	\$250 \$6	\$250 \$6	\$3,325 \$550	\$2,050 \$450	_
Brain Trust	\$55	\$55	_	_	\$1,257	\$1,227	\$108	\$108	\$1,420	\$1,390	989
Campus Crusade for Christ Campus Crusade for Cthulhu, MIT	_	_	\$860 \$200	-	\$2,800 \$675	\$1,400 \$675	\$210 \$150	\$80 \$150	\$3,870 \$1,025	\$1,480 \$1,025	_
MIT Casino Rueda Group Caving Club	\$850 \$675	\$850 \$675	\$275 \$1,449	\$75 \$390	\$440 \$250	\$440 \$250	\$50 \$40	\$50 \$40	\$1,615 \$2,414	\$1,415 \$1,355	88°
MIT Chamak	\$185	\$195	\$330	\$250	_	_	\$60	\$30	\$575	\$475	835
MIT Chess Club China Care	_	_	\$230 \$554	\$230 —	\$280 \$1,800	\$150 \$750	-	— \$100	\$510 \$2,454	\$380 \$850	755 355
MIT Chinese Ensemble Chinese Students' Club	— \$270	— \$100	\$147 \$560	\$147 \$360	\$230 \$10,380	\$170 \$1,700	\$50 \$200	\$50 \$200	\$427 \$11,410	\$367 \$2,360	869 219
The Chorallaries of MIT	— —		_		\$1,000	\$150	\$150	\$150	\$1,150	\$300	269
Colleges Against Cancer Concert Band	— \$200	<u> </u>	— \$1,100	— \$1,100	\$350 \$700	\$350 \$400	\$30 \$215	\$30 \$215	\$380 \$2,215	\$380 \$1,915	100
Cross Products Curling Club	\$105 \$300	\$105 \$300	_	_	\$70 \$150	\$70 \$150	\$104 \$20	\$105 \$20	\$279 \$470	\$280 \$470	100
Dance Troupe	_		\$1,000	\$250	\$2,000	\$2,000	\$400	\$200	\$3,400	\$2,450	72
MIT Debate Team MIT-EMS	\$3,100 \$460	\$1,500 \$150	— \$900	— \$100	- \$1,000	— \$150	-	— \$400	\$3,100 \$2,990	\$1,500 \$800	27
Engineers Without Borders - MIT MIT Fillipino Students Association			\$250 —	\$250 —	\$500 \$1,750	\$500 \$1,100	\$345 \$50	\$200 \$50	\$1,095 \$1,800	\$950 \$1,150	87°
GaMIT	_	_	_	_	\$1,150	\$950	\$35	\$35	\$1,185	\$985	83° 53°
Gilbert and Sullivan Players Global Poverty Initiative	_	_	\$1,000 —	\$300 —	\$480 \$820	\$480 \$820	- \$150	— \$150	\$1,480 \$970	\$780 \$970	1009
MIT Go Club MIT Gospel Choir	— \$1,260	<u> </u>	\$200 \$50	\$200 —	\$225 \$1,965	\$180 \$1,315	\$155 \$270	\$155 \$270	\$580 \$3,545	\$535 \$1,885	929 539
Habitat for Humanity MIT Hapa	\$2,800	\$1,000	_	_	\$2,270 \$1,150	- \$1,150	\$300 \$20	\$300 \$20	\$5,370 \$1,170	\$1,300 \$1,170	249
MIT Hawaii Club	— \$560	\$300	\$100	 \$100	\$1,000	\$800		\$200	\$1,660	\$1,400	849
MIT Hillel Hindu Students Council	\$650 \$125	\$450 \$100	\$475 \$90	— \$40	\$4,505 \$1,925	— \$1,500	\$325 \$205	\$150 \$205	\$5,955 \$2,345	\$600 \$1,845	799
Hong Kong Student Society Imobilare			— \$150	— \$150	\$1,150	\$950 —	\$100 \$50	\$100 \$50	\$1,250 \$200	\$1,050 \$200	1009
Komaza	_	_	_	_	_	_	\$2,300	\$2,300	\$2,300	\$2,300	1009
Korean Students' Association La Union Por Chicano Atzlan	\$60 \$950	<u> </u>	\$300 —	\$100 —	\$1,700 \$1,070	\$600 \$800	\$250 \$130	\$250 \$130	\$2,310 \$2,150	\$950 \$1,680	789
Lab for Chocolate Science LDSSA (Latter-Day Saint Student Association)	— \$120	— \$120	\$200 —	\$200 —	\$1,050 \$528	\$650 \$528	\$50 \$100	\$50 \$100	\$1,300 \$748	\$900 \$748	1009
Lecture Series Committee	\$3,000	\$3,000	_	_	_		_	_	\$3,000	\$3,000	1009
MIT Lion Dance Club MIT Live Music Connection	\$10 —	\$10 —	\$10 —	\$10 —	\$350 \$720	\$350 \$720	\$5 \$350	\$5 \$300	\$375 \$1,070	\$375 \$1,020	959
MIT Logarhythms MAES	\$500 —	\$500 —	\$180 \$85	\$180	\$1,100 \$1,623	\$150 \$528	\$203 \$150	\$203 \$150	\$1,983 \$1,858	\$1,033 \$678	525 365
MIT Marching Band	\$100	\$100	\$375	\$225	_		\$70	\$70	\$545	\$395	729
MentorConnection mitBEEF	— \$400	\$450 \$100	_	_	\$900 \$1,450	\$300 \$1,200	\$50 \$150	\$50 \$150	\$950 \$2,000	\$800 \$1,450	_
MITraas Mocha Moves	\$650 —	_	\$1,565 \$170	— \$170	— \$502	— \$452	\$80 \$100	— \$100	\$2,295 \$772	- \$722	949
Movements in Time	\$400	_	_	_	_	_	\$30	\$30	\$430	\$30	79
Mujeres Latinas MIT Muses	<u> </u>	— \$100	\$150 \$1,000	\$150 —	\$2,375 \$350	\$1,500 \$150	\$250 \$100	\$225 \$100	\$2,775 \$1,550	\$1,875 \$350	-
Musical Theatre Guild National Society of Black Engineers	\$1,058 \$500	\$818 \$500	_		\$1,800 \$1,810	\$1,100 \$1,310	— \$70	— \$70	\$2,858 \$2,380	\$1,918 \$1,880	
National Society of Collegiate Scholars MIT Natya	\$204		\$54 —	_ _	\$1,215 \$825	— \$825	— \$100	— \$100	\$1,473 \$925	— \$925	09
Network of Sloan Undergraduate Women	_	_	_		\$1,210	\$960	\$390	\$390	\$1,600	\$1,350	849
Nigerian Students Association NOBCChE-MIT	_ _	_ _	_	_ _	\$600 \$2,025	\$600 \$400	\$100 \$70	\$100 \$70	\$700 \$2,095	\$700 \$470	1009
Oori OrigaMIT	\$300 \$150	— \$150	— \$129	\$300 \$129	— \$335	— \$335	— \$30	— \$30	\$300 \$644	\$300 \$644	1009
PaksMIT	_	_	_	_	\$2,210	\$650	\$180	\$100	\$2,390	\$750	315
Pershing Rifles MIT Pro Life	\$300 —	\$300 —	\$895 —	\$605 —	— \$180	— \$140	<u> </u>	— \$63	\$1,195 \$453	\$905 \$203	76°
MIT Quidditch Team RecycleMania	\$200 \$500	\$200 \$200	\$530 —	\$250 —	\$400	\$400 —	\$75 \$200	\$75 \$200	\$1,205 \$700	\$925 \$400	77°
Resonance	\$20	\$200	_		\$1,200	\$350	\$850	\$150	\$2,070	\$520	25
Ridonkulous Science Fiction Society, MIT	\$905 —	_ _	\$300 \$3,000	— \$1,000	\$1,000 —		\$175 —		\$2,380 \$3,000	 \$1,000	_
SEALNet@MIT Shakespeare Ensemble	\$349 \$940	\$110 \$240	<u> </u>	— \$400	\$778 —	\$778 —	\$70 \$50	\$70 \$50	\$1,197 \$1,390	\$958 \$690	80°
Sloan Undergraduate Management Association	\$30		\$130	\$130		\$1,000 \$500	\$240	\$240	\$2,000	\$1,370 \$530	69
Society of Hispanic Professional Engineers South Asian American Students	— \$45	— \$45	_		\$700 \$1,835	\$1,035	\$130 \$245	\$30 \$230	\$830 \$2,125	\$1,310	_
Stand Up Comedy Club Strategic Games Society	\$350 —	\$200 —	<u> </u>	— \$200	\$290 \$150	\$290 \$150	\$50 \$10	\$50 \$5	\$690 \$360	\$540 \$355	_
Student Juggling Club	_	_	\$265	_	\$75	\$75	\$25	\$25	\$365	\$100	27
MITSI - MIT Students for Israel Students for the Exploration and Development of Space	— \$400	— \$400	<u> </u>	— \$200	-	— \$500	\$100 \$100	— \$100	\$1,800 \$1,400	— \$1,200	_
Sustainability@MIT MIT Swara	\$900 —		_	_	\$5,500 \$3,300	\$500 \$1,500	\$100 \$300	\$100 \$200	\$6,500 \$3,600	\$600 \$1,700	_
MIT Syncopasian	\$35	\$35	\$45	\$45	\$500	\$250	\$180	\$180	\$760	\$510	67
Techiya Toons	\$45 \$500	— \$500	\$60 —	_	\$50 \$600	— \$400	\$300 \$470	— \$270	\$455 \$1,570	— \$1,170	75
MIT Traditional Medicine Society MIT Undergraduate Biochemistry Association			_	_	\$820 \$680	— \$680	\$515 \$60	— \$60	\$1,335 \$740	— \$740	100
MIT Undergraduate Research Journal	\$2,000	\$2,000	_	_	\$200	\$200	\$400	\$250	\$2,600	\$2,450	94
United Christian Fellowship University Alliance for Essential Medicine	\$110 \$100	\$110 —	\$50 \$240	\$50 —	\$410 \$2,200	\$45 —	\$45 \$200	\$410 —	\$615 \$2,740	\$615 —	100
Vietnamese Students Association Voo Doo	\$70 \$200	_	\$25 —		\$1,095	\$1,095 —	\$40 \$1,750	\$40 \$1,750	\$1,230 \$1,950	\$1,135 \$1,750	
Western Hemisphere Project	_	_	\$100	_	\$510	<u></u> \$510	\$1,730	\$1,730	\$760	\$660	_
Music groups x 250 (10)	\$2500	\$2500	ı								

Top 10 Amounts Granted

Received
\$3,000
\$2,450
\$2,450
\$2,360
\$2,300
\$2,270
\$2,248
\$2,186
\$2,180
\$2,050

Top 10 Amounts Requested

Request	Recieved
\$11,410	\$2,360
\$7,078	\$2,248
\$6,500	\$600
\$5,955	\$600
\$5,370	\$1,300
\$5,270	\$2,000
\$4,275	\$1,200
\$3,870	\$1, 4 80
\$3,600	\$1,700
\$3,545	\$1,885
	\$7,078 \$6,500 \$5,955 \$5,370 \$5,270 \$4,275 \$3,870

Groups receiving 100% of requested funding

_	
Group	Received
Cross Products	\$279
Lecture Series Committee	\$3,000
Komaza	\$2,300
MIT Hapa	\$1,170
Campus Crusade for Cthulhu, MIT	\$1,025
Global Poverty Initiative	\$970
MIT Natya	\$925
LDSSA (Latter-Day Saint Student Association)	\$748
MIT Undergraduate Biochemistry Association	\$740
Nigerian Students Association	\$700
OrigaMIT	\$644
United Christian Fellowship	\$615
Curling Club	\$470
Best Buddies	\$400
Colleges Against Cancer	\$380
MIT Lion Dance Club	\$375
Oori	\$300
Alternative Spring Break	\$275
Alpha Phi Omega	\$200
Imobilare	\$200

Groups receiving $\leq 10\%$ of requested funding

1		0
Group	Request	Received
MIT Hillel	\$5,955	\$600
Sustainability@MIT	\$6,500	\$600
Movements in Time	\$430	\$30
University Alliance for Essential Medicine	\$2,740	\$0
Ridonkulous	\$2,380	\$0
MITraas	\$2,295	\$0
MITSI - MIT Students for Israel	\$1,800	\$0
National Society of Collegiate Scholars	\$1,473	\$0
MIT Traditional Medicine Society	\$1,335	\$0

24 THE TECH FRIDAY, JUNE 4, 2010



Athletes, from Page 26

the program, she will receive a master's degree in education and volunteer teach in a Catholic school in Savannah, Georgia. She also plans to coach lacrosse at the school.

Student-Athlete: Leslie A. Hansen '10 **Sport:** Women's Tennis

Bio: Hansen played first singles and first doubles for the women's tennis team. She competed in the NCAA national tournament in each of her four years at MIT, and reached the round of sixteen in 2008 and the quarterfinals in 2010, finishing her NCAA tournament career with a 4-4 record. She is also a two-time All-American, and was named to the Academic All-District First Team in 2010.

Student-Athlete: Emily F. Houston '10 **Sport:** Rifle

Bio: Named the Mid-Atlantic Conference Air Rifle Shooter of the Month in January 2009, Houston relished the opportunity to excel in both academics and athletics at MIT. "I loved going to the range and relaxing, and having the support and encouragement of my teammates and my coach through my four years in athletics," she said. The feelings were obviously mutual between Houston and her teammates — she cites "having [her] team vote [her] Most Valuable Player for the fourth year" as one of her favorite accomplishments, along with recording a career-high 588 points against the Naval Academy her junior year.

What's next: Houston will join Ethicon Endo-Surgery, a designer of minimally invasive surgical tools, as an Associate Engineer. She plans to maintain her rifle skills by training and competing at the regional and national levels, and she will pass down her knowledge to a team of juniors in the Cincinnati area in the fall.

Student-Athlete: Willard J. Johnson '09 **Sport:** Men's Basketball

Bio: An integral part of the basketball program's Cinderella story in 2009, Johnson fondly remembers when the team won MIT's first conference championship and earned its first NCAA tournament berth in school history. One game stands out in particular: "During our first NCAA tournament game vs. Rhode Island College at their place in 2009, [we came] out at halftime after an 8-point deficit to the roaring chant of 'MIT' from the student section that just arrived, and [turned] that deficit into a lead in about 2 minutes. I still get chills from that," he said. Aside from stretching his physical limits, Johnson says that basketball has taught him what "mens et manus" really means, thanks to the challenge of balancing varsity athletics with "the world's toughest undergraduate curriculum."

What's next: Johnson will transition from the role of MIT men's basketball star to MIT men's basketball assistant coach next year, as well as "most likely working with AmeriCorps."

Student-Athlete: Devin M. Lewis '10 **Sport:** Men's Water Polo

Bio: Lewis was MIT Water Polo's leading scorer with 55 goals last season. He led the Engineers to a seventh-place finish at the Eastern Championships, and closed his collegiate career with a hat trick in the deciding game against Iona College. Lewis was selected as an All-American in 2007 and 2008, and also earned All-Division and All-Eastern honors.

Student-Athlete: Alexandra T. May '10 **Sport:** Women's Volleyball

Bio: The former NEWMAC and New England Women's Volleyball Association (NEW-VA) Rookie of the Year finished in the top ten in program history in kills, digs, and blocks. She was selected as an All-Conference First Team member in two straight seasons, and earned First Team Academic All-American honors. May also received the Malcolm G. Kispert Award for the MIT female scholarathlete of the year, and an NCAA Postgraduate Scholarship, the first such award in program history.

Student-Athlete: Maria J. Monks '10 **Sport:** Women's Cross Country

Bio: This 2010 cross-country All-American and 2009 NEWMAC championship winner credited her participation in athletics as being "crucial to [her] non-academic development in college." As for her academic development, Monks is a mathematics whiz. She recorded a perfect 5.0 at MIT, earned a prestigious \$250,000 Hertz Fellowship and a Churchill Scholarship, and cited "discovering new mathematical truths" as one of her proudest moments as a student-athlete.

What's next: Monks will pursue a oneyear master's degree in mathematics at the University of Cambridge on a Churchill Scholarship. She will then enroll in UC Berkeley for graduate school in mathematics. In a few years, you can look for her on a marathon course: "I've been running my age in miles on my birthday nearly every year since I was 14, and so I intend to do marathons starting at age 26.2," she said.

Student-Athlete: Stephen A. Morton '10 **Sport:** Men's Track and Field

Bio: Morton's biggest athletic accom-

plishment happened just a few days ago, when he won the national long jump championship and greatly contributed to MIT's fourth-place finish at the NCAA Outdoor Track and Field Championship. Thanks to his victory and a third-place finish in the triple jump, Morton was named the Field Athlete of the Meet. Like many other studentathletes, this six-time All-American points to track as "an escape from MIT" and "an opportunity to network with alumni and to meet with people at other schools," Morton contends that track contributed directly to his MIT success: "I don't think I would have been as happy at MIT or that I would have done as well if it weren't for track."

What's next: Morton will stay in the Boston area as he works to bring his 2.009 (Product Engineering Processes) project to market. He also wants to "continue training and competing in the long and triple jump and may decide to coach part-time at some point in the future."

Student-Athlete: Rastislav Racz '10 **Sport:** Men's Swimming

Bio: Racz's proudest moment as a student-athlete will happen today as he receives his MIT diploma. In the pool, one of his most memorable accomplishments happened just a few months ago, when he and teammates Jeffrey Y. Zhou '10, Lucas R. Cummings '10, and Wyatt L. Ubellacker '13 placed third at the 2010 NCAA Division III Championships in the 200 medley relay. The five-time All-American credits swimming with introducing him to some of his best friends at MIT, as well as "relaxing [his] mind for a couple of hours every day."

What's next: Racz will begin graduate studies at Ecole Polytechnique in Paris — after competing in the European Swimming Championships in mid-August. "After that I will be done with competitive swimming, but I am already looking forward to doing triathlons and playing some hockey and soccer with friends on a regular basis," he said.

Student-Athlete: Eric R. Reuland '10 **Sport:** Men's Volleyball

Bio: MIT's Defensive Player of the Year takes an immense amount of pride in "contributing to the most successful season in MIT Men's Volleyball history," which culminated in reaching the semifinals of the East Coast regional tournament. Reuland remembers one match against Endicott College especially well; MIT had lost two previous matches in five games, and Endicott was ranked first in the conference. "We showed up at their place and stomped on them. There was no stopping us after that game," he said. Outside of competition, Reuland believes his experiences with the volleyball

team impacted his personal development: "Athletics and the leadership role I was able to take with the team have made me a better

What's next: Reuland will move out west to Irvine, California, where he will work on the post-commercial development of a cardiovascular medical device at Edwards Lifesciences. He also plans to shift from varsity indoor volleyball to competitive beach volleyball and is "considering coaching at a young level."

Student-Athlete: Jean E. "Liz" Theurer '10 **Sport:** Women's Soccer

Bio: The 2006 NEWMAC Rookie of the Year was a major part of the success of the women's soccer team, leading the team to its first conference championship and NCAA tournament appearance last fall. Theurer finishes her collegiate career ranked in the top six in points, goals, and assists. She was awarded an NCAA Postgraduate Scholarship for academic and athletic excellence, the first in program history and one of 29 awarded nationally.

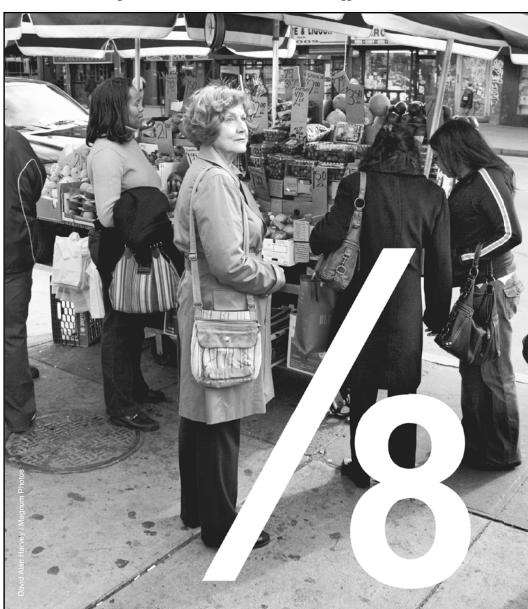
Student-Athlete: Jacqueline M. Wentz '10 Sports: Women's Cross-Country and Track and Field

Bio: Wentz is the newly-minted national champion in the 3000-meter Steeplechase in the 2010 Outdoor Division III Track and Field Championships, contributing to the women's strong third-place finish. Among other honors, Wentz was the NEWMAC Runner of the Year in 2008 and the New England Regional Champion in 2009. Beyond the awards, though, Wentz considers her varsity experience as a valuable social outlet: "Running Cross Country and Track at MIT gave me a way to challenge myself and be competitive in a non-academic way. It also provided me with lots of great friendships and something to look forward to every day," she said.

What's next: Wentz will attend Johns Hopkins University for graduate school in the fall. She will also continue training as she tries to qualify for the USA Track and Field nationals in the 3000-meter steeplechase.

Student-Athlete: Jeffrey Y. Zhou '10 **Sport:** Men's Swimming

Bio: Zhou was a big contributor to the team's success over the past four years, culminating in back-to-back NEWMAC championships and trips to the NCAA national competition. As part of the relays, he finished third, fourth, and fifth at nationals this season, giving MIT an 8th place finish – the second best in program history. Zhou finishes his career with six All-American honors and four Institute records.



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Go to **feedingamerica.org** to see how your support can help those in need.





Senior spotlight: Exceptional student-athletes

From basketball to rifle, the Class of 2010 shows off their athletic achievements

Caroline Huang and David Zhu

STAFF WRITERS

In the spirit of today's commencement, the sports section has chosen to spotlight a smattering of MIT's graduating student-

athletes. It is a testament to the strength of the Institute's athletic program that we do not have space to feature all of the seniors, though we tip our caps to every student who balanced the time commitment that a varsity sport requires with some of the nation's most rigorous academics.

Student-Athlete: Hemagiri Arumugam

Sport: Men's Track and Field, Men's Cross Country

Bio: The captain of the cross country team led the Engineers in extending their conference dominance and keeping MIT the only men's cross country champion NEWMAC has ever had. After finishing first over in the NEWMAC championship in Fall 2009, he was named the NEWMAC Runner of the Year. Arumugam was also the captain of the men's track and field team, and his top finishes in the 3000 meters helped MIT to win both conference and New England championships.

Student-Athlete: DeRon M. Brown '10

Sport: Football

Bio: Brown was the key to MIT Football's run-heavy offense, and in the 2010 season scored two-thirds of the team's touchdowns. He averaged over 150 yards per game, despite being knocked out of the season closer after only three yards. He was named MIT's first football All-American in over a decade in 2009 and 2010, after setting program records for rushing and touchdowns. In those two seasons, he was also named New England Football Conference (NEFC) Offensive Player of the Year and a Division III All-New England player.

Student-Athlete: Barden E. Cleeland '10 **Sport:** Women's Volleyball

Bio: This 6'2" middle hitter rebounded from a season-ending injury in 2006 to help the women's volleyball team reach the NCAA Sweet Sixteen her sophomore year. Cleeland counts her selection as the Coop Athlete of the Week and MIT's perfect conference record this past season as two of her proudest moments. Additionally, she received an American Volleyball Coaches Association (AVCA) All-America Honorable Mention in addition to several regional and conference honors, proof positive that an injury does not mean the end of a successful athletic career. "Volleyball kept me sane! It was a great balance to my academic life at MIT and provided a stress outlet," she said.

What's next: Cleeland will head to Washington, D.C. after graduation to work in the defense industry. She also plans to play volleyball in intramural leagues and hopes to serve as an assistant coach for high school volleyball in the next few years.

Student-Athlete: Lucas R. Cummings '10 **Sport:** Men's Swimming

Bio: Cummings's final NEWMAC race perhaps exemplifies the excitement of the past season for the Engineers, as he overtook his opponents in the final turn of the 400-meter freestyle relay to win by a quarter of a second. At Nationals this year, Cummings scored over a quarter of the team's points, leading MIT to an 8th place finish. Cummings finishes his collegiate career with eight All-American honors, and seven MIT records

Student-Athlete: Mike Demyttenaere '10 **Sport:** Men's Volleyball

Bio: Demyttenaere believes strongly in MIT pride: Beating Division I Harvard twice at home and breaking the Institute record for wins in a season are among his favorite athletic accomplishments. "Being on the volleyball team and competing at a very high level while attending such a great institution has been an awesome experience," he said. A member of the North East Collegiate Volleyball Association (NECVA) All-Division First Team in

2010, Demyttenaere broke the MIT record for career aces this season and became a member of the 1000 Kill Club. Additionally, he was named the MIT team's Most Valuable Player and selected to the NEC-VA All-Academic Team.

What's next: Demyttenaere will return to Brussels, Belgium as a Junior Consultant at Roland Berger Strategy Consultants. He will continue to play volleyball in a Belgian league.

Student-Athlete: Casey M. Flynn '10 **Sport:** Women's Lacrosse

Bio: Flynn is the consummate team player. Asked to name her three proudest moments, she lists "being elected a captain three times by my peers" and "seeing the program grow immensely from my freshman to senior year" prior to any of her individual accolades. But make no mistake, there are many individual awards she could have listed first — Flynn graduates as a four-time NEWMAC All-Conference team member, a two-time Intercollegiate Women's Lacrosse Coaches Association regional team selection, and the Institute's all-time leader in goals (142), assists (72), and points (214).

What's next: Flynn will participate in Notre Dame's Alliance for Catholic Education program for the next two years. Through

Athletes, Page 25

US preps for World Cup against Czechs, Turks

By Yifan Cao

Last week, the US Men's National Team played two friendly matches against the Czech Republic and Turkey teams, as a tune-up for the World Cup.

I actually got the chance to attend the first game against the Czech Republic, played in Hartford. Getting to the stadium a couple hours before the game started, there were huge crowds of people camped beside their cars on the grass lot — a soccer tailgate of sorts. Talking to a few parties, I found out that most had taken the day off from work and brought the entire family out for the pregame festivities as early as 10 a.m. (The game started at 8 p.m.) Not only was the game sold out, but the crowd really got into the game. There was even a streaker! Of course, there was the Sam's Army section (a group of supporters that follow the US team to games), but everyone else was also pretty enthusiastic and at least semi-knowledgeable about what good soccer fans should do.

As for the game itself, one could only describe it as disappointing. Coach Bob Bradley left most of his best players on the bench, so the likes of Howard, Donovan, Dempsey, Altidore, Bradley, and Bocanegra didn't see any action, much to the crowd's displeasure. It was more of a game to see who would make the 23-man roster and for experimentation. In the first half, the Americans and their young Czech opponents played more cautiously, so chances were tough to come by. Still, both teams managed to score a goal off free kick before halftime. Things got a lot livelier in the second half. Both teams were pushing forward more on the attack, which led to a more action-packed back and forth

game. Despite getting a Herculez Gomez goal on a nicely played corner, the US gave up three goals in the second half — so it was the Czechs who came out winners.

Though the game didn't do much to show us how well the US can expect their starting eleven to play, it did yield some results. Oguchi Onyewu, the high profile US central defender, is still bothered by his injury, as he was easily beaten by his man for the header that was the first Czech goal. He was substituted off at halftime, and defen-

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sive midfielder Maurice Edu moved into the central defense, where he didn't fit at all. Edu did a fine job in the midfield, scoring the US's first goal, but was easily beaten by the Czechs quite often, especially on their final goal. While the US had good play in wide areas from Beasley and surprisingly, Robbie Rogers, they couldn't do much in the center of the field, with Jose Torres being relatively ineffective, and Sacha Kljestan only doing marginally better. It was strange to see striker Brian Ching not make the roster after he was more effective in the game than fellow striker Edson Buddle, who did make the roster. All in all, there wasn't much to take from this particular friendly.

The Saturday, May 29 match against

Turkey in Philadelphia was the real test for the US team. They were facing a very strong Turkey team and finally fielding their own A team. Playing in front of another packed crowd, the US got off to a poor start in the first half. In fairness though, Turkey really came to play, and were passing the ball very well. As the US defense tried to play a high line, the Turks were able to play incisive passes to get a number of good opportunities on goal. The Turks really gave the US trouble with players rotating in and out of positions, and a lack of covering defense by the US led to a quick counterattack goal by Turkey. Turkey continued to give the US problems throughout the first half, and had three or four very good scoring chances, while the US never got in rhythm and only managed one good chance off a corner kick. Feilhaber looked lost on the left, while Dempsey really struggled to get into the game at all. Spector didn't look too good at right back either, with many of the Turkish chances coming from that angle, and was caught too far forward on the goal.

Though they were thoroughly outplayed in the first half, the USA played very well in the second half. The US really turned up the pressure when Turkey had possession, and that helped them get back into the game. Findley's introduction really bothered the Turkish defense, as he made many good runs and the incisive pass to Donavan for him to set up the first goal. With that performance, he guieted critics that guestioned why he was chosen to make the roster. Jose Torres also did a great job replacing Feilhaber and slotting into central midfield. He kept the ball moving well, and was rarely caught in possession, a frequent problem for him against the Czechs. Dempsey also benefitted from having Findley in as a second striker by having a more defined position, and it showed in his performance. He and Donavan each made solid passes and incisive runs, culminating in Dempsey's game winning goal.

When we got a chance to see the full US team in action, we saw a poor first half in which if it were not for some poor Turkish finishing, the US could have easily been down by three. But the second half performance was very good, and if they could repeat the pressure on the ball and their smart runs that pulled the Turkish formation apart, they should have a good chance against most of the teams in South Africa. However, the US hasn't yet gone up against a team that strictly puts ten men behind the ball on defense and squeezes the offense out of any room to operate, and that may very well be the case in the group stage, especially against Slovenia. Do they have the creativity to break down such a team

Still, with the win on Saturday, the US will go to South Africa with high spirits, and judging by the crowds at the two games, there's no shortage of passion from their fans. They'll have one more friendly against Australia, and then it'll be England on June 12th in the World Cup opener. The outlook is bright for the US — the team has a lot of potential and definitely has the talent to make it out of the group stages. Though they could be capable of giving a knockout round opponent a challenge, it doesn't look like the squad has the overall skill level to make it nost there Still with the recent in flux of interest and passion for the game, the US is heading in the right direction in the soccer world.

MIT Cycling faces ECCC rivals in Madison

By Martha Buckley

TEAM REPRESENTATIVE

Nine members of the MIT cycling team competed in the Collegiate Road Nationals, held May 7-9 in Madison, Wisconsin. The



event opened on Friday with an incredibly challenging road race at Blue Mound State Park. Rain, temperatures in the 40's, and over 8,000 feet of climbing over 70 miles made the men's race a race of at-

trition, with only half the starters finishing the race. John Dreher G was MIT's first finisher, in a solid 18th place, even though he had upgraded to A's just three weeks before nationals. Despite riding the last 10 miles of the race with a broken shifter cable, forcing him to run up the steep hills, John Rho-

den G placed 27th. After spending much of the race chasing after getting a flat tire, Tim Humpton '10 finished in 32nd place.

Despite the continued rain, the MIT women started off their race with a bang: on the climb in the first lap all three MIT women and a Dartmouth rider broke away from the field. Unfortunately, the break was unable to hold off the field on the subsequent long downhill, and most of the field remained together until the finishing climb. In the finishing climb Martha Buckley G attacked, and she and Arielle Filberti from Dartmouth gapped the field by about 30 seconds. Unfortunately, Buckley did not have much left when Arielle sprinted at the top of the hill, and she placed second. The MIT women continued to show their dominance, however, with Laura Ralston G placing 5th and Yuri Matsumoto G placing 8th.

Racing continued on Saturday with a criterion around the Wisconsin State Capitol. Despite hail and gusty winds, which led the MIT team to take refuge in a bus stop while warming up, the roads were dry and the sun was coming out when the women started their race. Early in the race, a group of three exceptionally strong riders got off the front, and despite their best efforts, the MIT women were unable to bridge up to them or organize a chase to pull them back. After a relatively slow pace for a number of laps, several riders attacked with one lap to go. Buckley went with them, and was able to pass all of them, winning the field sprint and placing 4th. The men's race played quite differently, with a large number of attacks going off, but none were able to stay away. Mike Garrett G had amazing positioning throughout the race, but was unable to maintain his position in the final lap, placing 38th.

The competition closed on Sunday with the team time trial. Although Matsumoto got a flat tire just under halfway through the race, Buckley, Ralston, and Zuzana Trnovcova G were able to finish in second, just fractions of a second ahead of Dartmouth College. The MIT men's team of Garrett, Dreher, Rhoden, and Zach LaBry G placed fifth, beating all the other Eastern Collegiate Cycling Conference (ECCC) teams.

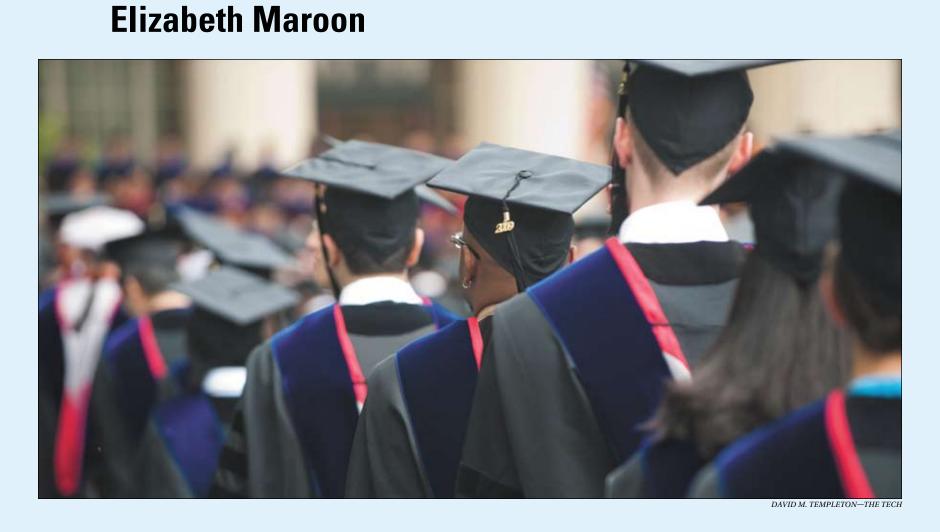
When the team scores were added up, the MIT team placed third, behind Whitman and Mesa State and just ahead of ECCC rival Dartmouth College. Buckley's second place finish in the road race and forth place finish in the criterion earned her third place in the women's individual omnium

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